

Final Report

Environmental Assessment: Demolish CASS Switch Stations Buildings 644, 645, 646 at Grand Forks Air Force Base

**Prepared by
Grand Forks Air Force Base, North Dakota
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DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 319TH AIR REFUELING WING (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

28 June 2006

MEMORANDUM FOR 319 CES/CEVA

FROM: 319 ARW/JA

SUBJECT: Legal Review – Grand Forks AFB Environmental Assessment and FONSI for Demolition of CASS Switch Stations 644, 645 and 646

1. Based upon my review the proposed Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) for the demolition of CASS Switch Stations 644, 645, and 646 complies with 32 CFR part 989 and is legally sufficient.
2. 32 CFR §. 989.14 states an EA must discuss the need for the proposed action, reasonable alternatives to the proposed action, the affected environment, the environmental impacts of the proposed action and alternatives (including the "no action" alternative), and a listing of agencies and persons consulted during preparation. The EA meets these requirements and follows the alternatives analysis guidance outlined in Sec. 989.8.
3. Public notification was accomplished on May 1, 19, and 20 2006. No comments were received. Agency comments are included at the end of the EA.
4. If you have any questions about these comments, please contact the undersigned at 7-3606.

A handwritten signature in black ink, appearing to read "Mark W. Hanson", is positioned above the printed name.

MARK W. HANSON, GS-12, DAF
Chief, General Law

**FINDING OF NO SIGNIFICANT IMPACT
FOR
DEMOLITION OF THE CASS SWITCH STATION FACILITIES 644, 645 AND 646**

AGENCY: Department of the Air Force

PROPOSED ACTION: The United States Air Force (USAF) proposes to demolish the Centralized Aircraft Support System (CASS) electrical switch station buildings 644, 645 and 646 on Grand Forks Air Force Base (AFB), North Dakota.

Purpose and Need: The purpose of the proposed action is to demolish the CASS switch stations 644, 645 and 646. These buildings were built in 1991 to house the CASS electrical switch system for the B-1B Lancer bomber aircraft. The CASS system no longer exists and power to these stations was abandoned during the Charlie ramp extension. The Grand Forks AFB Facilities Board approved the demolition of these facilities on 23 Nov 04 on project JFSD200373. Each building is 168 SF. The environmental assessment is assigned RCS number 2006-176.

The existing CASS switch stations 644, 645 and 646 have current airfield waivers. They violate the criteria distance from the taxiway and the Charlie ramp.

There is a need to eliminate these three inactive, unused buildings that are currently on the base's inventory. Mission requirements, operational considerations, and location are incompatible with use by other components.

A related EIAP document is the categorical exclusion accomplished in 1985 for the proposed construction project, RCS #1985-011, CASS Equipment Facilities and Installation.

Grand Forks Air Force Base must decide whether to demolish the CASS switch stations 644, 645 and 646 on Grand Forks AFB.

ALTERNATIVES CONSIDERED

No Action Alternative 1: The no action alternative would be to leave the facilities as they are. The existing CASS switch station facilities 644, 645 and 646 will continue to remain a waived airfield obstruction. Buildings 644, 645 and 646 will continue to be unused, abandoned facilities requiring maintenance and repair.

Proposed Action 2: Grand Forks AFB proposes to demolish the CASS switch stations, Buildings 644, 645 and 646, on project number JFSD200373. Excavate, remove and dispose of all associated structures, piping, electronics, communications, lighting, utilities and debris, including pad mount transformers to the southwest of each facility. Backfill and compact the site excavation area. Remove all utilities to the junction point nearest the taxiway and ramp.

Cap utilities as needed. Deliver the transformers to the base electric shop once power is terminated. Recycle the electronics and metals. Remove all hazardous materials, such as lead, lead-base paint, mercury, asbestos, etc., according to the latest federal, state or local codes. All hazardous material abatement, such as PCB ballast or mercury switch removal, shall be complete before the building demolition commences. The building foundation and footings shall be entirely removed to ten feet below the existing surface. Off-site clean fill shall be used to backfill. Concrete may not be used as site fill. The backfill material shall be free of bentonite, trash, frozen or organic material including lignites, humus, sod, grass, roots or other vegetation. The backfill material shall not be of a size greater than 3 inches, may not contain more than 12 percent shale, and not may contain greater than 20% sand. A minimum of six inches of topsoil shall be placed over the site and graded to match surrounding contours and be sodded. The concrete from the foundations may be salvaged by the contractor or hauled to a licensed landfill. Building 646 is the site of an active Environmental Restoration Program (ERP) site with five ground water monitoring wells to the north, east and south. There are also five monitoring wells to the south west of 645 on the west side of the taxiway. The contractor shall avoid the monitoring wells and is responsible for any damage to the wells.

Alternative Action 3: Renovate the CASS switch stations 644, 645 and 646 facilities for use by another agency.

ENVIRONMENTAL CONSEQUENCES

Air Quality - Air Quality is considered good and the area is in attainment for all criteria pollutants. No significant impacts to air quality would result because of demolition activities.

Noise - The demolition of the CASS switch stations 644, 645 and 646 would create additional noise. The increase in noise would be negligible and only occur during demolition.

Wastes, Hazardous Materials, and Stored Fuels - The increase in hazardous and solid wastes from demolition of the CASS switch stations 644, 645 and 646 would be temporary. Solid waste debris would be disposed of in an approved location, such as the Grand Forks Municipal Landfill. Inert demolition debris would be disposed at an approved location, such as Berger Landfill.

Water Resources - Provided best management practices (BMPs) are followed, there would be minimal impacts on stormwater, ground water and water quality. The proposed action would have no impact on wastewater.

Biological Resources – BMPs and control measures, including storm drain covers and covering of stockpiles, would be implemented to ensure that impacts to biological resources be kept to a minimum. BMPs would be required to prevent the spread of noxious weeds, minimize soil erosion, and promote the establishment of native plant species.

Socioeconomic Resources - This action would have a minor positive effect on the local economy. Secondary retail purchases would make an additional contribution to the local communities. The implementation of the proposed action, therefore, would provide a short-term, beneficial impact to local retailers during the demolition phase of the project.

Cultural Resources - The proposed action has little potential to impact cultural resources. In the unlikely event any such artifacts were discovered during the demolition, the operator or contractor would be instructed to halt operations and immediately notify Grand Forks AFB civil engineers who would notify the State Historic Preservation Officer.

Land Use - The proposed operation would not have an impact on land use, since the area is designated for airfield operations.

Transportation Systems – The proposed operation would have minor adverse impact to transportation systems on base due to vehicles traveling to and from 644, 645 and 646.

Airspace/Airfield Operations - The proposed action would have a positive impact to aircraft safety or airspace compatibility with the elimination of three airfield waivers. The increase in contractor actions on the Charlie ramp would be temporary and only occur during demolition.

Safety and Occupational Health – Participants in the demolition must wear appropriate personnel protective equipment (PPE).

Environmental Management – Provided best management practices (BMPs) are followed, the proposed action would not impact ERP Sites. BMPs would be implemented to prevent erosion.

Environmental Justice - EO 12898 requires federal agencies to identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority and low-income populations. There is no minority or low-income populations in the area of the proposed action or alternatives, and, thus, there would be no disproportionately high or adverse impact on such populations.

A copy of the EA was available at the Grand Forks AFB Public Affairs office. All interested agencies and persons were invited to submit written comments within thirty days from the public notice. The public notice appeared in the Grand Forks AFB Leader on May 19 and the Grand Forks Herald on May 18 and 20, 2006. No comments were received from the public. Comments were received from the North Dakota Department of Health, U.S. Fish and Wildlife Service, N.D. Game and Fish, and N.D. State Historical Society. They are included at the end of the EA.

No adverse environmental impact to any of the areas identified by the AF Form 813 is expected by the proposed action, demolition of buildings 644, 645 and 646.

CONCLUSION: Based on the Environmental Assessment performed for demolition of buildings 644, 645 and 646, no significant environmental impact is anticipated from the proposed action. Based upon this finding, an Environmental Impact Statement is not required for this action. This document and the supporting AF Form 813 fulfill the requirements of the National Environmental Policy Act (NEPA), the Council of Environmental Quality (CEQ) regulations implementing NEPA, and Air Force Instruction 32-7061, which implements the CEQ regulations.



WAYNE A. KOOP, R.E.M., GS-13
Environmental Management Flight Chief

Date: 29 Jun 06

Attachment
Environmental Assessment

Cover Sheet

Agency: United States Air Force (USAF)

Action: The action proposes to demolish the Centralized Aircraft Support System (CASS) switch station buildings 644, 645 and 646 at Grand Forks Air Force Base (AFB), North Dakota.

Contacts: 319 CES/CEVA
525 Tuskegee Airmen Boulevard (Blvd)
Grand Forks AFB, ND 58205

Designation: Environmental Assessment (EA)

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In addition to the Proposed Action, the Alternative Action and the No Action Alternative were analyzed in the EA. The EA also addresses the potential cumulative effects of the associated activities along with other concurrent actions at Grand Forks AFB and the surrounding area.

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ACRONYMS, ABBREVIATIONS, AND TERMS

AAM	Annual Arithmetic Mean
AC	Alternating Current
ACG	Architectural Compatibility Guidelines
ACM	Asbestos Containing Material
AF	Air Force
AFB	Air Force Base
AFI	Air Force Instruction
AFOSH	Air Force Occupational Safety and Health
AICUZ	Air Installation Compatible Use Zone
AMC	Air Mobility Command
APZ	Accident Potential Zone
ARPA	Archeological Resource Protection Act
ARW	Air Refueling Wing
AST	Above Ground Storage Tank
ATC	Air Traffic Control
AT/FP	Antiterrorism Force Protection
ATR	Air Traffic Radio
Ave	Avenue
BASH	Bird Aircraft Strike Hazard
Bldg	Building
Blvd	Boulevard
BMP	Best Management Practice
BMX	Bike Motocross
BOD	Biochemical Oxygen Demand
BRAC	Base Realignment And Closure
BTU	British Thermal Unit
CAA	Clean Air Act
CDC	Child Development Center
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CES	Civil Engineer Squadron
CEV	Environmental Management Flight
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CWA	Clean Water Act
dB	decibel
dBA	Decibels Adjusted
DNL	Day-Night Average A-Weighted Sound Level
DoD	Department of Defense
EA	Environmental Assessment

EIAP	Environmental Impact Analysis Process
EIS	Environmental Impact Statement
EO	Executive Order
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ERP	Environmental Restoration Program
ESA	Endangered Species Act
F	Fahrenheit
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FONPA	Finding of No Practicable Alternative
FONSI	Finding of No Significant Impact
ft	Feet
ft ³ /s	feet cubed per meter
FW	Fighter Wing
GATR	Ground-to-Air Transmitter and Receiver
GFAFB	Grand Forks Air Force Base
GPP	Green Procurement Program
HAP	Hazardous Air Pollutants
hr	Hour
HM	Hazardous Material
H ₂ S	Hydrogen Sulfide
HVAC	Heating, Ventilation and Air Conditioning
HW	Hazardous Waste
IAW	in accordance with
IRP	Installation Restoration Program
INRMP	Integrated Natural Resources Management Plan
KV	Kilovolt
KVA	Kilovolt-Ampere
LT	Long-Term
MBTA	Migratory Bird Treaty Act
MFH	Military Family Housing
MILSTD	Military Standard
mph	Miles Per Hour
MSDS	Material Safety Data Sheet
MSL	Mean Sea Level
µg/m ³	Micrograms Per Meter Cubed
MUX	Multiplex(er)

NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
ND	North Dakota
NDAAQS	North Dakota National Ambient Air Quality Standards
NDAC	North Dakota Administrative Code
NDDH	North Dakota Department of Health
NDPDES	North Dakota Pollutant Discharge Elimination System
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFPA	National Fire Protection Act
NHPA	National Historic Preservation Act
NO _x	Nitrogen Oxides
NO ₂	Nitrogen Dioxide
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NRHP	National Register of Historic Places
NWR	National Wildlife Refuge
O ₃	Ozone
OSHA	Occupational Safety and Health Act
OWS	Oil Water Separator
P2	Pollution Prevention
Pb	Lead
PCS	Petroleum-Contaminated Soil
PEM	Palustrine Emergent Wetland
PM ₁₀	Particulate Matter 10 Microns in Diameter
PM _{2.5}	Particulate Matter 25 Microns in Diameter
POL	Petroleum Oil Lubricant
PPE	Personal Protective Equipment
ppm	Parts Per Million
PSD	Prevention of Significant Deterioration
QA/QC	Quality Assessment and Quality Control
RACM	Regulated Asbestos Containing Materials
RCRA	Resource Conservation and Recovery Act
RCS	Report Control Symbol
RH	Relative Humidity
RI/FS	Remedial Investigation/Feasibility Study
RV	Recreational Vehicle
SAGE	Strategic Air Ground Equipment
SAIC	Science Applications International Corporation
SARA	Superfund Amendments and Reauthorization Act
SF	Square Feet

SNG	Synthetic Natural Gas
SO ₂	Sulfur Dioxide
SO _x	Sulfur Dioxide
St	Street
ST	Short-Term
SWMU	Solid Waste Management Unit
TO	Technical Order
tpy	Tons Per Year
TSCA	Toxic Substance Control Act
TSI	Thermal System Insulation
UAV	Unmanned Aerial Vehicle
UHF	Ultra High Frequency
UPS	Uninterruptible Power Supply
US	United States
USACE	United States Army Corps of Engineers
USAF	United States Air Force
USFWS	United States Fish and Wildlife Service
U.S.C.	United States Code
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound
VHF	Very High Frequency

EXECUTIVE SUMMARY

The United States Air Force (USAF) proposes to demolish the Centralized Aircraft Support System (CASS) electrical switch station buildings 644, 645 and 646 on Grand Forks Air Force Base (AFB), North Dakota.

Purpose and Need: The purpose of the proposed action is to demolish the CASS switch stations 644, 645 and 646. These buildings were built in 1991 to house the CASS electrical switch system for the B-1B Lancer bomber aircraft. The CASS system no longer exists and power to these stations was abandoned during the Charlie ramp extension. The Grand Forks AFB Facility Board approved the demolition of these facilities on 23 Nov 04 on project JFSD200373. Each building is 168 SF.

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Alternative Action 3: Renovate the CASS switch stations 644, 645 and 646 facilities for use by another agency.

Impacts by Resource Area

Air Quality - Air Quality is considered good and the area is in attainment for all criteria pollutants. No significant impacts to air quality would result because of demolition activities.

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Safety and Occupational Health – Participants in the demolition must wear appropriate personnel protective equipment (PPE).

Environmental Management – Provided best management practices (BMPs) are followed, the proposed action would not impact ERP Sites. BMPs would be implemented to prevent erosion.

Environmental Justice - EO 12898 requires federal agencies to identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority and low-income populations. There is no minority or low-income populations in the area of the proposed action or alternatives, and, thus, there would be no disproportionately high or adverse impact on such populations.

1.0 PURPOSE OF AND NEED FOR PROPOSED ACTION

This Environmental Assessment (EA) examines the potential for impacts to the environment resulting from demolition of the Centralized Aircraft Support System (CASS) switch stations 644, 645 and 646 on Grand Forks Air Force Base (AFB). As required by the National Environmental Policy Act (NEPA) of 1969, federal agencies must consider environmental consequences in their decision-making process. The EA provides analysis of the potential environmental impacts from both the proposed action and its alternatives. The environmental assessment is assigned RCS number 2006-176. The project number assigned is JFSD200373. A copy of the AF 813 initiating the assessment and the real property record cards are found in Appendix D.

1.1 INTRODUCTION

Located in northeastern North Dakota (ND), Grand Forks AFB is the first core refueling wing in Air Mobility Command (AMC) and home to 48 KC-135R Stratotanker aircraft. The host organization at Grand Forks AFB is the 319th Air Refueling Wing (ARW). Its mission is to guarantee global reach, by extending range in the air, supplying people and cargo where and when they are needed and provides air refueling and airlift capability support to United States Air Force (USAF) operations anywhere in the world, at any time. Organizational structure of the 319th ARW consists primarily of an operations group, maintenance group, mission support group, and medical group.

The location of the proposed action (and the alternative actions) would be at Grand Forks AFB, ND. Grand Forks AFB covers approximately 5,420 acres of government-owned land and is located in northeastern ND, about 14 miles west of Grand Forks, along United States (US) Highway 2. Grand Forks (population 49,321) is the third largest city in ND. Appendix A includes a Location Map. The city, and surrounding area, is a regional center for agriculture, education, and government. It is located approximately 160 miles south of Winnipeg, Manitoba, and 315 miles northwest of Minneapolis, Minnesota. The total base population, as of May 2005, is approximately 7,175. Of that, 2,842 are military, 3,953 are military dependents, and 380 civilians working on base (Grand Forks AFB, 2005).

The Base Realignment and Closure (BRAC) 2005 Report submitted by the President to Congress became final after November 8, 2005. This is an important milestone in the restructuring of DoD's domestic base structure within the process established by Congress. The Department must begin this implementation process within 2 years from the date the President submitted to the Congress (September 15, 2005) and complete it within 6 years. The BRAC Commission's final recommendation included realignment of the 319th Air Refueling Wing's KC-135-R/T aircraft to Scott AFB, Seymour-Johnson AFB, MacDill AFB, Hickam AFB and McConnell AFB. It recommended modification of infrastructure at Grand Forks AFB to accommodate the emerging Unmanned Aerial Vehicle (UAV) mission. Twelve KC-135 aircraft will remain at Grand Forks AFB to facilitate an efficient and cost effective bed down of UAVs. The tankers will remain in place until the UAVs are operational at GFAFB, but not later than 2011, unless otherwise required for national emergencies. Grand Forks will remain an active Air Force installation with a new active duty/Air National Guard association unit created in anticipation of

emerging missions at Grand Forks. The 119th Fighter Wing at Hector International Airport Air National Guard Station at Fargo ND will be redesignated as a UAV wing, and facilities in Fargo will be expanded to accommodate the UAV ground control and intelligence analysis functions and expeditionary combat support elements. The Air Force will construct appropriate facilities on GFAFB to launch, recover, maintain and support the UAVs assigned to the 119th FW.

1.2 NEED FOR THE ACTION

Facilities 644, 645 and 646 were constructed to house the equipment used for the B-1B Lancer bomber aircraft and are no longer needed. The CASS switch stations have not been used since 1994. The facilities continue to degenerate from non-use. Photographs of the facilities are found in Appendix F.

1.3 OBJECTIVES FOR THE ACTION

Grand Forks AFB proposes to demolish buildings 644, 645 and 646 on project number JFSD200373. The metal facilities contain the electronic and electrical cabinets of the CASS, Centralized Aircraft Support System, installed in 1991, located between Charlie Ramp and the taxiway. Demolition of buildings 644, 645 and 646 will provide room for a new mission, or a new use of the land area, and eliminate three airfield waivers. A map of the location of this proposed demolition is located in Appendix E.

1.4 SCOPE OF EA

This EA identifies, describes, and evaluates the potential environmental impacts associated with the demolition of the CASS switch station buildings 644, 645 and 646 on Grand Forks AFB. This analysis covers only those items listed above. It does not include any previous demolition or demolition of facilities, parking lots, associated water drainage structures, or other non-related demolition and construction activities.

The following must be considered under the NEPA, Section 102(E).

- Air Quality
- Noise
- Wastes, Hazardous Materials, and Stored Fuels
- Water Resources
- Biological Resources
- Socioeconomic Resources
- Cultural Resources
- Land Use
- Transportation Systems
- Airspace/Airfield Operations
- Safety and Occupation Health
- Environmental Management
- Environmental Justice

1.5 DECISION(S) THAT MUST BE MADE

This EA evaluates the environmental consequences from demolition of the CASS switch stations 644, 645 and 646 on Grand Forks AFB. NEPA requires that environmental impacts be considered prior to final decision on a proposed project. The Environmental Management Flight Chief will determine if a Finding of No Significant Impact can be signed or if an Environmental Impact Statement (EIS) must be prepared. Preparation of an environmental analysis must be accomplished prior to a final decision regarding the proposed project and must be available to inform decision makers of potential environmental impacts of selecting the proposed action or any of the alternatives.

1.6 APPLICABLE REGULATORY REQUIREMENTS AND REQUIRED COORDINATION

These regulations require federal agencies to analyze potential environmental impacts of proposed actions and alternatives and to use these analyses in making decisions on a proposed action. All cumulative effects and irretrievable commitment of resources must also be assessed during this process. The Council on Environmental Quality (CEQ) regulations declares that an EA is required to accomplish the following objectives:

- Briefly provide sufficient evidence and analysis for determining whether to prepare an EIS or a Finding of No Significant Impact (FONSI).
- Aid in an agency's compliance with NEPA when an EIS is not necessary, and facilitate preparation of an EIS when necessary.

Air Force Instruction (AFI) 32-7061 as promulgated in 32 Code of Federal Regulations (CFR) 989, specifies the procedural requirements for the implementation of NEPA and the preparation of an EA. Other environmental regulatory requirements relevant to the proposed action and alternatives are also in this EA. Regulatory requirements including, but not restricted to the following programs will be assessed:

- AF Environmental Impact Analysis Process (EIAP) (32 CFR 989)
- AFI 32-7020, Environmental Restoration Program
- AFI 32-7040, Air Quality Compliance
- AFI 32-7041, Water Quality Compliance
- AFI 32-7042, Solid and Hazardous Waste Compliance
- AFI 32-7063, Air Installation Compatible Use Zone (AICUZ) Program
- AFI 32-7064, Integrated Natural Resource Management
- Archaeological Resources Protection Act (ARPA) [16 U.S.C. Sec 470a-11, et seq., as amended]
- Clean Air Act (CAA) [42 U.S.C. Sec 7401, et seq., as amended]
- Clean Water Act (CWA) [33 U.S.C. Sec 400, et seq.]
- CWA [33 U.S.C. Sec 1251, et seq., as amended]

- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) [42 U.S.C. Sec. 9601, et seq.]
- Defense Environmental Restoration Program [10 U.S.C. Sec. 2701, et seq.]
- Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 [42 U.S.C. Sec. 11001, et seq.]
- Endangered Species Act (ESA) [16 U.S.C. Sec 1531-1543, et seq.]
- Executive Order (EO) 11514, Protection and Enhancement of Environmental Quality as Amended by EO 11991
- EO 11988, Floodplain Management
- EO 11990, Protection of Wetlands
- EO 12372, Intergovernmental Review of Federal Programs
- EO 12898, Environmental Justice
- EO 12989 Federal Actions to Address Environmental Justice in Minority Populations and Low-income Populations
- EO 13045, Protection of Children from Environmental Health Risks and Safety Risks
- Hazardous Materials Transportation Act of 1975 [49 U.S.C. Sec 1761, et seq.]
- NEPA of 1969 [42 U.S.C. Sec 4321, et seq.]
- National Historic Preservation Act (NHPA) of 1966 [16 U.S.C. Sec 470, et seq., as amended]
- The Native American Graves Protection and Repatriation Act (NAGPRA) of 1990 [Public Law 101-601, 25 U.S.C. Sec. 3001-3013, et seq.]
- Noise Control Act of 1972 [42 U.S.C. Sec. 4901, et seq., Public Law 92-574]
- ND Air Pollution Control Act (Title 23) and Regulations
- ND Air Quality Standards (Title 33)
- ND Hazardous Air Pollutants Emission Standards (Title 33)
- Occupational Safety and Health Act (OSHA) of 1970 [29 U.S.C. Sec. 651, et seq.]
- Resource Conservation and Recovery Act (RCRA) of 1976 [42 U.S.C. Sec. 6901, et seq.]
- Toxic Substances Control Act (TSCA) of 1976 [15 U.S.C. Sec. 2601, et seq.]

Grand Forks AFB has a National Pollutant Discharge Elimination System (NPDES) permit for both waste water and storm water to cover base-wide industrial activities. Implementation of the proposed action or an alternative action would disturb less than one acre, and thus negate the need for Grand Forks AFB to obtain a separate NPDES Construction permit from the North Dakota Department of Health (NDDH). Our general small site permit will cover this activity and needs to be tracked by the demolition agent IAW the appropriate rules. The permit would allow discharge of storm water runoff until the site is stabilized by the reestablishment of vegetation or other permanent cover.

Scoping for this EA included discussion of relevant issues with members of the environmental management and bioenvironmental flights. Scoping letters requesting comments on possible issues of concern are sent to agencies with pertinent resource responsibilities. In accordance with 32 CFR 989, a copy of the final EA is submitted to the ND Division of Community Services.

Applicable regulatory requirements and required coordination before and during construction include a Work Clearance Request, Stormwater Protection Plan, Dust Control Plan, Spill Control Plan, and Erosion and Sediment Control Plan to the CEV Water Program Manager; a Spill Control Plan and Waste Disposal Plan to the CEV Pollution Prevention Manager; and copies of all plans to the Contracting Officer.

2.0 DESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES

2.1 INTRODUCTION

Based on the descriptions of the relevant environmental resources presented in Section 3 and the predictions and analyses presented in Section 4, this section presents a comparative summary matrix of the alternatives (the heart of the analysis), providing the decision maker and the public with a clear basis for choice among the alternatives.

This section has five parts:

- Selection Criteria for Alternatives
- Alternatives Considered but Eliminated from Detailed Study
- Detailed Descriptions of the Three Alternatives Considered
- Comparison of Environmental Effects of the Proposed Action and Alternatives
- Identification of the Preferred Alternative

2.2 SELECTION CRITERIA FOR ALTERNATIVES

Selection criteria used to evaluate the Proposed and Alternative Actions include the following:

A means to eliminate three airfield waivers at Grand Forks AFB.

A cost effective method to dispose of excess facilities assigned to Grand Forks AFB.

Minimum mission requirements include efficiency, effectiveness, legality, force protection and safety to meet AF requirements.

Minimum environmental standards include OSHA, AFOSH, NFPA, AFI, CFR, EPA and North Dakota standards for noise, air, water, safety, HM/HW, vegetation, cultural, geology, soils, and socioeconomic.

2.3 ALTERNATIVES CONSIDERED BUT ELIMINATED FROM DETAILED STUDY

There were no alternatives considered but eliminated from detailed study.

2.4 DESCRIPTION OF PROPOSED ALTERNATIVES

This section describes the activities that would occur under three alternatives: the no action alternative, the proposed action, and action alternative. These three alternatives provide the decision maker with a reasonable range of alternatives from which to choose.

2.4.1 Alternative 1 (No Action Alternative): Status Quo

The no action alternative would be to leave the facilities as they are. The existing CASS switch station facilities 644, 645 and 646 will continue to remain a waived airfield obstruction. The buildings will continue to be unused, abandoned facilities requiring maintenance and repair. The obsolete facilities would continue to deteriorate and detract from the appearance of the airfield.

2.4.2 Alternative 2 (Proposed Action):

Grand Forks AFB proposes to demolish the CASS switch stations, Buildings 644, 645 and 646, on project number JFSD200373. Excavate, remove and dispose of all associated structures, piping, electronics, communications, lighting, utilities and debris, including pad mount transformers to the southwest of each facility. Backfill and compact the site excavation area. Remove all utilities to the junction point nearest the taxiway and ramp. Cap utilities as needed. Deliver the transformers to the base electric shop once power is terminated. Recycle the electronics and metals. Remove all hazardous materials, such as lead, lead-base paint, mercury, asbestos, etc., according to the latest federal, state or local codes. All hazardous material abatement, such as PCB ballast or mercury switch removal, shall be complete before the building demolition commences. The building foundation and footings shall be entirely removed to ten feet below the existing surface. Off-site clean fill shall be used to backfill. Concrete may not be used as site fill. The backfill material shall be free of bentonite, trash, frozen or organic material including lignites, humus, sod, grass, roots or other vegetation. The backfill material shall not be of a size greater than 3 inches, may not contain more than 12 percent shale, and not may contain greater than 20% sand. A minimum of six inches of topsoil shall be placed over the site and graded to match surrounding contours and be sodded. The concrete from the foundations may be salvaged by the contractor or hauled to a licensed landfill. Building 646 is an active Environmental Restoration Program (ERP) site with five ground water monitoring wells to the north, east and south. There are also five monitoring wells to the south west of 645 on the west side of the taxiway. The contractor shall avoid the monitoring wells and is responsible for any damage to the wells. A map of the location of this proposed demolition is located in Appendix E. Photographs of the facilities are found in Appendix F.

2.4.3 Alternative 3: Renovate the CASS switch stations 644, 645 and 646 for another mission.

2.5 DESCRIPTION OF PAST, PRESENT, AND REASONABLY FORESEEABLE FUTURE ACTIONS RELEVANT TO CUMULATIVE IMPACTS

Impacts from the Proposed Action would be concurrent with other actions occurring at Grand Forks AFB. There are several other construction and demolition projects occurring on Grand Forks AFB in the same time frame. These projects are addressed under separate NEPA documents. A related EIAP document is the categorical exclusion accomplished in 1985 for the proposed construction project, RCS #1985-011, CASS Equipment Facilities and Installation.

2.6 SUMMARY COMPARISON OF THE EFFECTS OF ALL ALTERNATIVES

Potential impacts from implementing the No Action Alternative, the Proposed Action, and Alternative are discussed in detail in Chapter 4.

2.7 IDENTIFICATION OF PREFERRED ALTERNATIVE

The preferred alternative is the proposed action to demolish the CASS switch stations 644, 645 and 646.

Table 2.6.1: Summary of Environmental Impacts

	No Action Alternative 1	Proposed Action 2	Alternative 3	
Legend: ST = short-term; LT = long-term				
Air Quality	None	Minor Adverse ST Impact	Minor Adverse ST Impact	
Noise	None	Minor Adverse ST Impact	Minor Adverse ST Impact	
Wastes, Hazardous Materials, and Stored Fuels	None	Adverse ST Impact	Minor Adverse ST Impact	
Water Resources				
Ground Water	None	Minor Adverse ST Impact	Minor Adverse ST Impact	
Surface Water	None	Minor Adverse ST Impact	Minor Adverse ST Impact	
Wastewater	None	None	None	
Water Quality	None	None	None	
Wetlands	None	None	None	
Biological Resources				
Vegetation	None	Minor Adverse ST Impact	Minor Adverse ST Impact	
Noxious Weeds	None	Minor Adverse ST Impact	Minor Adverse ST Impact	
Wildlife	None	Minor Adverse ST Impact	Minor Adverse ST Impact	
Threatened and Endangered Species	None	Minor Adverse ST Impact	Minor Adverse ST Impact	
Socioeconomic Resources	None	Minor Beneficial ST Impact	Minor Beneficial ST Impact	
Cultural Resources	None	None	None	
Land Use	None	None	None	
Transportation Systems	None	Minor Adverse ST Impact	Minor Adverse ST Impact	
Airspace/Airfield Operations				
Aircraft Safety	None	Beneficial LT Impact	Adverse LT Impact	
Airspace Compatibility	None	None	None	
Safety and Occupational Health	None	Minor Adverse ST Impact	Minor Adverse ST Impact	
Environmental Management				
Installation Restoration Program	None	None	None	
Geological Resources	None	None	None	
Pesticide Management	None	None	None	
Environmental Justice	None	None	None	

3.0 AFFECTED ENVIRONMENT

3.1 INTRODUCTION

This section describes the operational concerns and the environmental resources relevant to the decision that must be made concerning this proposed action. Environmental concerns and issues relevant to the decision to be made and the attributes of the potentially affected environment are studied in greater detail in this section. This descriptive section, combined with the definitions of the alternatives in Section 2, and their predicted effects in Section 4, establish the scientific baseline against which the decision-maker and the public can compare and evaluate the activities and effects of all the alternatives.

3.2 AIR QUALITY

Grand Forks AFB has a humid continental climate that is characterized by frequent and drastic weather changes. The summers are short and humid with frequent thunderstorms. Winters are long and severe with almost continuous snow cover. The spring and fall seasons are generally short transition periods. The average annual temperature is 40° Fahrenheit (F) and the monthly mean temperature varies from 6° F in January to 70° F in July. Mean annual precipitation is 19.5 inches. Rainfall is generally well distributed throughout the year, with summer being the wettest season and winter the driest. An average of 34 thunderstorm days per year is recorded, with some of these storms being severe and accompanied by hail and tornadoes. Mean annual snowfall recorded is 40 inches with the mean monthly snowfall ranging from 1.6 inches in October to 8.0 inches in March. Relative humidity averages 58 percent annually, with highest humidity being recorded in the early morning. The average humidity at dawn is 76 percent. Mean cloud cover is 48 percent in the summer and 56 percent in the winter (USAF, 2003).

Table 3.2-1: Climate Data for Grand Forks AFB, ND						
	Mean Temperature (°F)			Precipitation (Inches)		
	Daily			Monthly		
Month	Maximum	Minimum	Monthly	Mean	Maximum	Minimum
January	15	-1	6	0.7	2.4	0.1
February	21	5	13	0.5	3.2	0.0
March	34	18	26	1.0	2.9	0.0
April	53	32	41	1.5	4.0	0.0
May	69	47	56	2.5	7.8	0.5
June	77	56	66	3.0	8.1	0.8
July	81	61	70	2.7	8.1	0.5
August	80	59	67	2.6	5.5	0.1
September	70	49	57	2.3	6.2	0.3
October	56	37	44	1.4	5.7	0.1
November	34	20	26	0.7	3.3	0.0
December	20	6	12	0.6	1.4	0.0
Source: AFCCC/DOO, October 1998						

Wind speed averages 10 miles per hour (mph). A maximum wind speed of 74 mph has been recorded. Wind direction is generally from the northwest during the late fall, winter, and spring, and from the southeast during the summer.

Grand Forks County is included in the ND Air Quality Control Region. This region is in attainment status for all criteria pollutants. In 1997, the ND Department of Health (NDDH) conducted an Air Quality Monitoring Survey that indicated that the quality of ambient air in ND is generally good as it is located in an attainment area (NDDH, 1998). Grand Forks AFB has an air permit T5-F78004 (permit to operate) issued by NDDH and a CAA Title V air emissions permit.

The United States Environmental Protection Agency (USEPA) established the National Ambient Air Quality Standards (NAAQS), which define the maximum allowable concentrations of pollutants that may be reached, but not exceeded within a given time period. The NAAQS regulates the following criteria pollutants: Ozone (O₃), carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), lead (Pb), and particulate matter. The ND Ambient Air Quality Standards (NDAAQS) were set by the State of ND. These standards are more stringent and emissions for operations in ND must comply with the Federal or State standard that is the most restrictive. There is also a standard for hydrogen sulfide (H₂S) in ND.

Prevention of significant deterioration (PSD) regulations establishes SO₂, particulate matter 10 microns in diameter (PM₁₀), and NO₂ that can be emitted above a premeasured amount in each of three class areas. Grand Forks AFB is located in a PSD Class II area where moderate, well-controlled industrial growth could be permitted. Class I areas are pristine areas and include national parks and wilderness areas. Significant increases in emissions from stationary sources (100 tons per year (tpy) of CO, 40 tpy of nitrogen oxides (NO_x), volatile organic compounds (VOCs), or sulfur oxides (SO_x), or 15 tpy of PM₁₀) and the addition of major sources requires compliance with PSD regulations. There is also a 25 ton/year level for total particulate.

Air pollutants include O₃, CO, NO₂, SO₂, Pb, and particulate matter. Ground disturbing activities create PM₁₀ and particulate matter 2.5 microns in diameter (PM_{2.5}). Combustion creates CO, SO₂, PM₁₀, and PM_{2.5} particulate matter and the precursors (VOC and NO₂) to O₃. Only small amounts of Hazardous Air Pollutants (HAP) are generated from internal combustion processes or earth-moving activities. The Grand Forks AFB Final Emissions Survey Report (USAF, 1996) reported that Grand Forks AFB only generated small levels HAPs, 10.3 tpy of combined HAPs and 2.2 tpy maximum of a single HAP (methyl ethyl ketone). Methyl Ethyl Ketone is associated with aircraft and vehicle maintenance and repair. Secondary sources include fuel storage and dispensing (USAF, 2001a).

Table 3.2-2
National Ambient Air Quality Standards (NAAQS) and ND Ambient Air Quality Standards (NDAAQS)

Pollutant	Averaging Time	NAAQS $\mu\text{g}/\text{m}^3$ (ppm) ^a		NDAAQS $\mu\text{g}/\text{m}^3$ (ppm) ^a
		Primary ^b	Secondary ^c	
O ₃	1 hr 8 hr ^e	235 (0.12) 157 (0.08)	Same Same	Same None
CO	1 hr 8 hr	40,000 (35) 10,000 (9)	None None	40,000 (35) 10,000 (9)
NO ₂	AAM ^d	100 (0.053)	Same	Same
SO ₂	1 hr 3 hr 24 hr AAM	None None 365 (0.14) 80 (0.03)	None 1,300 (0.5) None None	715 (0.273) None 260 (0.099) 60 (0.023)
PM ₁₀	AAM 24 hr	50 150	Same Same	Same Same
PM _{2.5} ^e	AAM 24 hr	65 15	Same Same	None None
Pb	¼ year	1.5	Same	Same
H ₂ S	1 hr 24 hr 3 mth AAM Instantaneous	None None None None	None None None None	280 (0.20) 140 (0.10) 28 (0.02) 14 (10) 14 (10)

^a $\mu\text{g}/\text{m}^3$ – micrograms per cubic meter; ppm – parts per million

^bNational Primary Standards establish the level of air quality necessary to protect the public health from any known or anticipated adverse effects of pollutant, allowing a margin of safety to protect sensitive members of the population.

^cNational Secondary Standards establish the level of air quality necessary to protect the public welfare by preventing injury to agricultural crops and livestock, deterioration of materials and property, and adverse impacts on the environment.

^dAAM – Annual Arithmetic Mean.

^eThe Ozone 8-hour standard and the PM 2.5 standards are included for information only. A 1999 federal court ruling blocked implementation of these standards, which USEPA proposed in 1997. USEPA has asked the US Supreme Court to reconsider that decision (USEPA, 2000).

PM₁₀ is particulate matter equal to or less than 10 microns in diameter.

PM_{2.5} is particulate matter equal to or less than 2.5 microns in diameter.

Source: 40 CFR 50, ND Air Pollution Control Regulations – North Dakota Administrative Code (NDAC) 33-15

3.3 NOISE

Noise generated on Grand Forks AFB consists mostly of aircraft, vehicular traffic and demolition activity. Most noise is generated from aircraft during takeoff and landing and not from ground traffic. Noise levels are dependent upon type of aircraft, type of operations, and distance from the observer to the aircraft. Duration of the noise is dependent upon proximity of the aircraft, speed, and orientation with respect to the observer.

Table 3.3-1 Typical Decibel Levels Encountered in the Environment and Industry			
Sound Level (dBa) ^a	Maximum Exposure Limits	Source of Noise	Subjective Impression
10			Threshold of hearing
20		Still recording studio; Rustling leaves	
30		Quiet bedroom	
35		Soft whisper at 5 ft ^b ; Typical library	
40		Quiet urban setting (nighttime); Normal level in home	Threshold of quiet
45		Large transformer at 200 ft	
50		Private business office; Light traffic at 100 ft; Quiet urban setting (daytime)	
55		Window air conditioner; Men's clothing department in store	Desirable limit for outdoor residential area use (EPA)
60		Conversation speech; Data processing center	
65		Busy restaurant; Automobile at 100 ft	Acceptable level for residential land use
70		Vacuum cleaner in home; Freight train at 100 ft	Threshold of moderately loud
75		Freeway at 10 ft	
80		Ringling alarm clock at 2 ft; Kitchen garbage disposal; Loud orchestral music in large room	Most residents annoyed
85		Printing press; Boiler room; Heavy truck at 50 ft	Threshold of hearing damage for prolonged exposure
90	8 hr ^c	Heavy city traffic	
95	4 hr	Freight train at 50 ft; Home lawn mower	
100	2 hr	Pile driver at 50 ft; Heavy diesel equipment at 25 ft	Threshold of very loud
105	1 hr	Banging on steel plate; Air Hammer	
110	0.5 hr	Rock music concert; Turbine condenser	
115	0.25 hr	Jet plane overhead at 500 ft	
120	< 0.25 hr	Jet plane taking off at 200 ft	Threshold of pain
135	< 0.25 hr	Civil defense siren at 100 ft	Threshold of extremely loud
^a dBA – decibals ^b ft – feet ^c hr - hours Source: US Army, 1978			

Table 3.3-2 Approximate Sound Levels (dBa) of Construction Equipment						
Equipment Type	Sound Levels (dBa) at Various Distances (ft)					
	50	100	200	400	800	1,600
Front-end Loader	84	78	72	66	60	54
Dump Truck	83	77	71	65	59	53
Truck	83	77	71	65	59	53
Tractor	84	78	72	66	58	52
Source: Thurman, 1976; US Army, 1978						

Because military installations attract development in proximity to their airfields, the potential exists for urban encroachment and incompatible development. The USAF utilizes a program known as AICUZ to help alleviate noise and accident potential problems due to unsuitable community development. AICUZ recommendations give surrounding communities alternatives to help prevent urban encroachment. Noise contours are developed from the Day-Night Average A-Weighted Sound Level (DNL) data which defines the noise created by flight operations and ground-based activities. The AICUZ also defines Accident Potential Zones (APZs), which are rectangular corridors extending from the ends of the runways. Recommended land use activities and densities in the APZs for residential, commercial, and industrial uses are provided in the base's AICUZ study. Grand Forks AFB takes measures to minimize noise levels by evaluating aircraft operations. Blast deflectors are utilized in designated areas to deflect blast and minimize exposure to noise.

3.4 WASTES, HAZARDOUS MATERIALS, AND STORED FUELS

3.4.1 Hazardous Waste, Hazardous Material, Recyclable Material

Hazardous wastes, as listed under the RCRA, are defined as any solid, liquid, contained gaseous, or combination of wastes that pose a substantive or potential hazard to human health or the environment. On-base hazardous waste generation involves three types of on-base sites: an accumulation point (90-day), satellite accumulation points, and spill cleanup equipment and materials storage (USAF, 2001c). Discharge and emergency response equipment is maintained in accessible areas throughout Grand Forks AFB. The Fire Department maintains adequate fire response and discharge control and containment equipment. Equipment stores are maintained in buildings 409 and 530. Petroleum contaminated soils generated from excavations throughout the base can be treated at the land treatment facility located on base. These solid wastes are tilled or turned a minimum of four times a year to remediate the soils to acceptable levels.

Recyclable materials from industrial facilities are collected in the recycling facility, in building 671. Paper, cardboard, and wood are collected in separate storage bins. Glass, plastics and metal cans are commingled. Curbside containers are used in housing for recyclable materials. A contractor collects these materials and transports them off base for processing.

The Environmental Management Flight manages the hazardous material through a contract with Science Applications International Corporation (SAIC). Typical hazardous materials include reactive materials such as explosives, ignitables, toxics, and corrosives. Improper storage can impact human health and the safety of the environment.

3.4.2 Underground and Above Ground Storage Tanks

Since Grand Forks AFB is a military installation with a flying mission, there are several aboveground and underground fuel storage tanks (ASTs and USTs). Gasoline, diesel fuel, heating fuel, JP-8 aircraft fuel, and oil-water separator (OWS)-recovered oils are stored in thirty-nine (39) USTs. Twenty (20) regulated USTs include three (3) gasoline tanks, eight (8) diesel tanks, three (3) JP-8 tanks, and six (6) OWS product recovery tanks. Deferred USTs include five (5) JP-8 tanks. Five (5) USTs exempt from regulation include one (1) heating oil tank, three (3)

emergency spill containment tanks, and one (1) hydraulic oil recovery tank. Gasoline, diesel fuel, heating oil, JP-8, and used oil are stored in fifty-eight (58) ASTs. The majority of petroleum is JP-8 stored in six (6) tanks with a capacity of 3,990,000 gallons for the hydrant fuel system. Diesel fuel is stored in forty-five (45) tanks primarily for emergency generators. Other tanks include: heating oil stored in three (2) tanks; gasoline stored in two (2) tanks; and, used oil stored in three (3) tanks. All ASTs either have secondary containment or are programmed to have secondary containment installed. The six (6) hydrant fuel system tanks each are contained by a concrete dike system. Runway deicing fluid (potassium acetate) is stored in two (2) 5000 gallon tanks while aircraft deicing fluid (propylene glycol) is stored in a 20,000 gallon tank (Type I) and a 4,000 gallon tank (Type IV). A map of environmental sites is found in Appendix C.

3.4.3 Solid Waste Management

Hard fill, demolition debris, and inert waste generated by Grand Forks AFB are disposed of at a permitted off-base landfill. All on-base household garbage and solid waste is collected by a contractor and transported to the Grand Forks County Landfill, which opened in 1982. The majority of demolition debris is disposed of at Berger Landfill (permit number IT-198) while municipal waste and asbestos waste is disposed of at the Grand Forks Landfill (SW-069). GFAFB also operates a land treatment facility (IT-183) for the remediation of petroleum-contaminated soils (PCSs). PCSs are generated on-base through spills, are encountered while excavating for various subsurface repairs, or encountered while replacing or removing underground storage tanks and piping.

3.5 WATER RESOURCES

3.5.1 Ground Water

Chemical quality of ground water is dependent upon the amount and type of dissolved gases, minerals, and organic material leached by water from surrounding rocks as it flows from recharge to discharge areas. The water table depth varies throughout the base, from a typical 1-3 ft to 10 ft or more below the surface.

Even though the Dakota Aquifer has produced more water than any other aquifer in Grand Forks County, the water is very saline and generally unsatisfactory for domestic and most industrial uses. Its primary use is for livestock watering. It is sodium chloride type water with total dissolved solids concentrations of about 4,400 ppm. The water generally contains excessive chloride, iron, sulfate, total dissolved solids, and fluoride. The water from the Dakota is highly toxic to most domestic plants and small grain crops, and in places, the water is too highly mineralized for use as livestock water (Hansen and Kume, 1970).

Water from wells tapping the Emerado Aquifer near Grand Forks AFB is generally of poor quality due to upward leakage of poor quality water from underlying bedrock aquifers. It is sodium sulfate type water with excessive hardness, chloride, sulfate, and total dissolved solids. Water from the Lake Agassiz beach aquifers is usually of good chemical quality in Grand Forks County. The water is a calcium bicarbonate type that is relatively soft. The total dissolved

content ranges from 308 to 1,490 ppm. Most water from beach aquifers is satisfactory for industrial, livestock, and agricultural uses (Hansen and Kume, 1970).

Grand Forks AFB draws 85 to 90 percent of its water for industrial, commercial and housing functions from the City of Grand Forks and 10 to 15 percent from Agassiz Water.

3.5.2 Surface Water

Natural surface water features located on or near Grand Forks AFB are the Turtle River and Kellys Slough National Wildlife Refuge (NWR). Drainage from surface water channels ultimately flows into the Red River.

The Turtle River, crossing the base boundary at the northwest corner, is very sinuous and generally flows in a northeasterly direction. It receives surface water runoff from the western portion of Grand Forks AFB and eventually empties into the Red River of the North that flows north to Lake Winnipeg, Canada. The Red River drainage basin is part of the Hudson Bay drainage system. At Manvel, ND, approximately 10 miles northeast of Grand Forks AFB, the mean discharge of the Turtle River is 50.3 feet cubed per second (ft³/s). Peak flows result from spring runoff in April and minimum flows (or no flow in some years) occur in January and February.

NDDH has designated the Turtle River to be a Class II stream, it may be intermittent, but, when flowing, the quality of the water, after treatment, meets the chemical, physical, and bacteriological requirements of the NDDH for municipal use. The designation also states that it is of sufficient quality to permit use for irrigation, for propagation of life for resident fish species, and for boating, swimming, and other water recreation.

Kelly's Slough NWR occupies a wide, marshy flood plain with a poorly defined stream channel, approximately two miles east and downstream of Grand Forks AFB. Kellys Slough NWR receives surface water runoff from the east half of the base and effluent from the base sewage lagoons located east of the base. Surface water flow of the slough is northeasterly into the Turtle River Drainage from surface water channels ultimately flowing into the Red River. Floodplains are limited to an area 250 ft on either side of Turtle River (about 46 acres on base). Appendix C contains a map depicting floodplains. Any development in or modifications to floodplains must be coordinated with the Corps of Engineers and the Federal Emergency Management Agency (FEMA). The North Dakota State Water Commission requires that any structure in the floodplain have its lowest floor above the identified 100-year flood level.

Surface water runoff leaves Grand Forks AFB at four primary locations related to identifiable drainage areas on base. The four sites are identified as northeast, northwest, west, and southeast related to the base proper. These outfalls were approved by the NDDH as stated in the Grand Forks AFB ND Pollutant Discharge Elimination System (NDPDES) Permit NDR02-0314 Stormwater Discharges from Industrial Activity. Of the four outfall locations, the west and northwest sites flow into the Turtle River, the northeast site flows to the north ditch and the southeast outfall flows into the south ditch. The latter two flow to Kellys Slough and then the Turtle River. All drainage from these surface water channels ultimately flows into the Red

River. The Bioenvironmental Engineering Office samples the four outfall locations during months when de-icing activities occur on base.

3.5.3 Waste Water

Grand Forks AFB discharges its domestic and industrial wastewater to four stabilization lagoons located east of the main base. The four separate treatment cells consist of one primary treatment cell, two secondary treatment cells, and one tertiary treatment cell. Wastewater effluent is discharged under ND Permit ND0020621 into Kellys Slough. Wastewater discharge occurs for about one week, sometime between mid-April through October. Industrial wastewater at the base comprises less than ten percent of the total flow to the treatment lagoons.

3.5.4 Water Quality

According to the National Water Quality Inventory Report (USEPA, 1995), ND reports the majority of rivers and streams have good water quality. Natural conditions, such as low flows, can contribute to violations of water quality standards. During low flow periods, the rivers are generally too saline for domestic use. Grand Forks AFB receives water from Grand Forks and Lake Agassiz Water. The city recovers its water from the Red River and the Red Lake River, while the water association provides water from aquifers. The water association recovers water from well systems within glacial drift aquifers (USAF, 1999). The 319th Civil Engineering Squadron tests the water received on base daily for fluorine and chlorine. The 319th Bioenvironmental Flight collects monthly bacteriological samples to be analyzed at the ND State Laboratory.

3.5.5 Wetlands

About 246,900 acres in the county are drained wetland Type I (wet meadow) to Type V (open freshwater). Approximately 59,500 acres of wetland Type I to V are used for wetland habitat. Wetland Types IV and V include areas of inland saline marshes and open saline water. Kellys Slough NWR occupies a wide, marshy flood plain with a poorly defined stream channel, approximately two miles east and downstream of Grand Forks AFB. Kellys Slough NWR is the most important regional wetland area in the Grand Forks vicinity. EO 11990 requires zero loss of wetlands. Earlier surveys indicated Grand Forks AFB had 49 wetlands, covering 23.9 acres of wetlands, including 33 jurisdictional wetlands covering 12.2 acres. A wetland delineation conducted in 2004 indicated that the base had increased to 192 wetlands. There are 192 wetlands containing 301 acres. These include one Riverine wetland totaling 3 acres in Turtle River, one Palustrine Emergent Wetland (PEM)/Lacustrine wetland totaling 47 acres, and 190 Palustrine wetlands totaling 251 acres. Of the Palustrine wetlands, 32 are Scrub-shrub wetlands at 76 acres, 3 are Forested wetlands at approximately <1 acre, and 155 are Emergent wetlands at 174 acres. Fifteen wetlands have been identified as jurisdictional comprising 145 acres on base, and the remainder are non-jurisdictional. Vegetation is robust at GFAFB wetlands, and they are characterized as typical prairie potholes found within the northern plains ecoregion.

Wetlands on Grand Forks AFB occur frequently in drainage ways, low-lying depressions, and prairie potholes. Wetlands are highly concentrated in drainage ways leading from the

wastewater treatment lagoons to Kellys Slough NWR. The majority of wetland areas occur in the northern and central portions of base, near the runway, while the remaining areas are near the eastern boundary and southeastern corner of base. Development in or near these areas must include coordination with the ND State Water Commission and the USACE. To help preserve wetlands, the North Dakota, Grand Forks County regional office of the Natural Resource Conservation Service recommends a 100-ft vegetated (grass) buffer with a perimeter filter strip.

3.6 BIOLOGICAL RESOURCES

3.6.1 Vegetation

Plants include a large variety of naturally occurring native plants. Hay land, wildlife management areas, waterfowl production areas, neighboring wildlife refuges, state parks, and conservation reserve program land have created excellent grassland and wetland habitats for wildlife in Grand Forks County. Pastures, meadows, and other non-cultivated areas create a prairie-land mosaic of grasses, legumes, and wild herbaceous plants. Included in the grasses and legumes vegetation species are tall wheat grass, brome grass, Kentucky bluegrass, sweet clover, and alfalfa. Herbaceous plants include little bluestem, goldenrod, green needle grass, western wheat grass, and bluegrama. Shrubs such as Juneberry, dogwood, hawthorn, buffaloberry, and snowberry also are found in the area. In wetland areas, predominant species include *Typha* sp., smartweed, wild millet, cord grass, bulrushes, sedges, and reeds. These habitats for upland wildlife and wetland wildlife attract a variety of species to the area and support many aquatic species.

Various researchers, most associated with the University of ND, have studied current native floras in the vicinity of the base. The Natural Heritage Inventory through field investigations has identified ten natural communities occurring in Grand Forks County (1994). Of these, two communities are found within base boundaries, River/Creek and Lowland Woodland. The River/Creek natural community refers to the Turtle River. This area is characterized by submergent and emergent aquatic plants, green algae, diatoms, diverse invertebrate animals such as sponges, flatworms, nematode worms, segmented worms, snails, clams, and immature and adult insects, fish, amphibians, turtles, and aquatic birds and mammals. Dominant trees in the Lowland Community include elm, cottonwood, and green ash. Dutch elm disease has killed many of the elms. European buckthorn (a highly invasive exotic species), chokecherry, and wood rose (*Rosa woodsii*) are common in the under story in this area. Wood nettle (*Laportea canadensis*), stinging nettle (*Urtica dioica*), beggars' ticks (*Bidens frondosa*), and waterleaf (*Hydrophyllum virginianum*) are typical forbes.

A prairie restoration project in the "Prairie View Nature Preserve" has been developed to restore a part of the native tallgrass prairie that once was dominant in this region. Plants thriving in this preserve include western wheatgrass, slender wheatgrass, big bluestem, little bluestem, Indian grass, switchgrass, blue gramma, buffalo grass, and many native wildflower species. The Grand Forks AFB Natural Resources Manager and volunteers installed a butterfly garden in the Prairie View Nature Preserve in the fall of 2005, on National Public Lands Day. Volunteers helped plant the 1,300 square foot garden with about 50 different perennial varieties and shrubs.

Two hundred and fifty five taxa were identified in the ND Natural Heritage Inventory and the BS Bioserve biological inventory update for Grand Forks Air Force Base. Two rare orchid species are known to exist on Grand Forks AFB, the Large and Small Yellow Lady's Slipper, identified during the 2004 inventory.

3.6.2 Wildlife

Grand Forks County is agrarian in nature, however it does have many wildlife management areas, waterfowl production areas, conservation reserve program land, and recreational areas providing excellent habitat for local wildlife within the county. Kellys Slough NWR is located a couple miles northeast of Grand Forks AFB. In addition to being a wetland, it is a stopover point for thousands of migratory birds, especially shorebirds. The Prairie Chicken Wildlife Management Area is located north of Mekinock and contains 1,160 acres of habitat for deer, sharp-tailed grouse, and game birds. Wildlife can also be found at the Turtle River State Park, The Bremer Nature Trail, and the Myra Arboretum.

The base supports a remarkable diversity of wildlife given its size and location within an agricultural matrix. The Turtle River riparian corridor, Prairie View Nature Preserve, grassland areas on the west side of the base, and the lagoons to the east of the base all provide important habitat for native plant and wildlife species and should be conserved as such within mission constraints. Many mammalian species are found on base such as the white tail deer, eastern cottontail, coyotes, beaver, raccoons, striped skunks, badgers, voles, gophers, shrews, mice, muskrat, squirrels, bats, and occasional moose and bear.

One hundred seventy bird species were identified in the 2004 biological survey, many of which include grassland bird species. Grassland bird populations are declining across North America due to huge losses of prime grassland habitat from conversion to agricultural, urban, and industrial development. No other avian group has experienced such dramatic losses as grassland birds. GFAFB is fortunate to support a large variety of grassland birds, many of which are listed on the Partners-in-Flight species of concern list, such as the grasshopper sparrow. Large blocks of grassland should be conserved to protect these grassland bird species if the mission constraints allow it.

3.6.3 Threatened and Endangered Species

According to the Biological Survey Update 2004 of GFAFB, 21 state-listed birds and 1 federally listed bird species, 2 state-listed plant species, 1 state-listed mammal species, and 1 state-listed amphibian have been identified at GFAFB. The base does have infrequent use by migratory threatened and endangered species, such as the bald eagle, but there are no critical or significant habitats for those species present. Several rare and state-listed species have been observed on base near Turtle River, the lagoons, and the grassland to the west of the airfield. The ESA does require that Federal Agencies not jeopardize the existence of a threatened or endangered species nor destroy or adversely modify designated critical habitat for threatened or endangered species.

3.7 SOCIOECONOMIC RESOURCES

Grand Forks County is primarily an agricultural region and, as part of the Red River Valley, is one of the worlds most fertile. Cash crops include sugar beets, beans, corn, barley, and oats. The valley ranks first in the nation in the production of potatoes, spring wheat, sunflowers, and durum wheat. Grand Forks County's population in 2000 was 66,109, a decrease of 6.5 percent from the 1990 population of 70,638 (ND State Data Center, No Date). Grand Forks County's annual mean wage in Oct 2001 was \$26,715 (Job Service of ND, 2001). Grand Forks AFB is one of the largest employers in Grand Forks County. The total base population, as of May 2005, is approximately 7,175. Of that, 2,842 are military, 3,953 are military dependents, and 380 civilians working on base (Grand Forks AFB, 2005). The total annual economic impact for Grand Forks AFB is \$353,592,679.

3.8 CULTURAL RESOURCES

According to the Grand Forks AFB Cultural Resources Management Plan, there are no archeological sites that are potentially eligible for the National Register of Historic Places (NRHP). A total of six archeological sites and six archeological find spots have been identified on the base. They are abandoned farmsteads and isolated artifacts. None meet the criteria of eligibility of the NRHP established in 36 CFR 60.4. There is no evidence for Native American burial grounds, or other culturally sensitive areas. Paleosols (soil that developed on a past landscape) remain a management concern requiring Section 106 compliance. Reconnaissance-level archival and archeological surveys of Grand Forks AFB conducted by the University of ND in 1989 indicated that there are no facilities (50 years or older) that possess historical significance. A map of the cultural resource probability areas is located in Appendix B. The base is currently consulting with the ND Historical Society on the future use of eight Cold War Era facilities. These are buildings 313, 606, 703, 704, 705, 706, 707, and 714.

3.9 LAND USE

Land use in Grand Forks County consists primarily of cultivated crops with remaining land used for pasture and hay, urban development, recreation, and wildlife habitat. Principal crops are spring wheat, barley, sunflowers, potatoes, and sugar beets. Turtle River State Park, developed as a recreation area in Grand Forks County, is located about five miles west of the base. Several watershed protection dams are being developed for recreation activities including picnicking, swimming, and ball fields. Wildlife habitat is very limited in the county. Kellys Slough NWR (located about two miles east of the base) and the adjacent National Waterfowl Production Area are managed for wetland wildlife and migratory waterfowl, but they also include a significant acreage of open land wildlife habitat.

The main base encompasses 5,420 acres, of which the USAF owns 4,830 acres and another 590 acres are lands containing easements, permits, and licenses. Improved grounds, consisting of all covered area (under buildings and sidewalks), land surrounding base buildings, the 9-hole golf course, recreational ball fields, and the family housing area, encompass 1,120 acres. Semi-improved grounds, including the airfield, fence lines and ditch banks, skeet range, and riding stables account for 1,390 acres. The remaining 2,910 acres of the installation consist of unimproved grounds. These areas are comprised of woodlands, open space, and wetlands, including four lagoons (180.4 acres) used for the treatment of base wastewater. Agricultural out

leased land (1,040 acres) is also classified as unimproved. Land use at the base is solely urban in nature, with residential development to the south, and cropland, hayfields, and pastures to the north, west, and east of the base.

3.10 TRANSPORTATION SYSTEMS

Seven thousand vehicles per day travel ND County Road B3 from Grand Forks AFB's east gate to the US Highway 2 Interchange (Clayton, 2001). Two thousand vehicles per day use the off-ramp from US Highway 2 onto ND County Road B3 (Dunn, 2001). US Highway 2, east of the base interchange, handles 10,800 vehicles per day. (Kingsley and Kuntz, 2001). A four lane arterial road has a capacity of 6,000 vehicles per hour and a two lane, 3,000, based on the average capacity of 1,500 vehicles per hour per lane. Roadways adjacent to Grand Forks AFB are quite capable of accommodating existing traffic flows (USAF, 2001a).

Grand Forks AFB has good traffic flow even during peak hours (6-8 am and 4-6 pm). There are two gates: the main gate located off of County Road B3, about one mile north of U.S. Highway 2 and the Secondary Gate located off of U.S. Highway 2, about 3/4 mile west of County Road B3. The main gate is connected to Steen Boulevard (Blvd), which is the main east-west road, and serves the passenger traffic; and the south gate is connected to Eielson Street (St), which is the main north-south road and serves the truck traffic.

3.11 AIRSPACE/AIRFIELD OPERATIONS

3.11.1 AIRCRAFT SAFETY

Bird Aircraft Strike Hazard (BASH) is a major safety concern for military aircraft. Collision with birds may result in aircraft damage and aircrew injury, which may result in high repair costs or loss of the aircraft. A BASH hazard exists at Grand Forks AFB and its vicinity, due to resident and migratory birds. Daily and seasonal bird movements create various hazardous conditions. Although BASH problems are minimal, Kellys Slough NWR is a major stopover for migratory birds. Canadian Geese and other large waterfowl have been seen in the area (USAF, 2001b).

3.11.2 AIRSPACE COMPATIBILITY

The primary objective of airspace management is to ensure the best possible use of available airspace to meet user needs and to segregate requirements that are incompatible with existing airspace or land uses. The Federal Aviation Administration has overall responsibility for managing the nation's airspace and constantly reviews civil and military airspace needs to ensure all interests are compatibly served to the greatest extent possible. Airspace is regulated and managed through use of flight rules, designated aeronautical maps, and air traffic control procedures and separation criteria.

3.12 SAFETY AND OCCUPATIONAL HEALTH

Safety and occupational health issues include one-time and long-term exposure. Examples include asbestos/radiation/chemical exposure, explosives safety quantity-distance, and bird/wildlife aircraft hazard. Safety issues include injuries or deaths resulting from a one-time accident. Aircraft Safety includes information on birds/wildlife aircraft hazards and the BASH program. Health issues include long-term exposure to chemicals such as asbestos and lead-based paint. Safety and occupational health concerns could impact personnel working on the project and in the surrounding area.

The National Emission Standards for Hazardous Air Pollutants (NESHAP) of the CAA designates asbestos as HAP. OSHA provides worker protection for employees who work around or asbestos containing material (ACM). Regulated ACM (RACM) includes thermal system insulation (TSI), any surfacing material, and any friable asbestos material. Non-regulated Category I non-friable ACM includes floor tile and joint compound.

Lead exposure can result from paint chips or dust or inhalation of lead vapors from torch-cutting operations. This exposure can affect the human nervous system. Due to the size of children, exposure to lead based paint is especially dangerous to small children. OSHA considers all painted surfaces in which lead is detectable to have a potential for occupational health exposure.

3.13 ENVIRONMENTAL MANAGEMENT

3.13.1 ENVIRONMENTAL RESTORATION PROGRAM

The Environmental Restoration Program (ERP) is the AF's environmental restoration program based on the CERCLA. CERCLA provides for Federal agencies with the authority to inventory, investigate, and clean up uncontrolled or abandoned hazardous waste sites. There are seven ERP sites at Grand Forks AFB. These sites are identified as potentially impacted by past hazardous material or hazardous waste activities. They are the Fire Training Area/Old Sanitary Landfill Area, FT-02; New Sanitary Landfill Area, LF-03; Strategic Air Ground Equipment (SAGE) Building 306, ST-04; Explosive Ordnance Detonation Area, OT-05; Refueling Ramps and Pads, Base Tanks Area, ST-06; POL Off-Loading Area, ST-07; and Refueling Ramps and Pads, ST-08 (USAF, 1997b). Two sites are considered closed, OT-05 and ST-06. ST-08 has had a remedial investigation/feasibility study (RI/FS) completed, and the rest are in long-term monitoring. Grand Forks AFB is not on the National Priorities List (NPL)

3.13.2 GEOLOGICAL RESOURCES

3.13.2.1 Physiography and Topography

The topography of Grand Forks County ranges from broad, flat plains to gently rolling hills that were produced mainly by glacial activity. Local relief rarely exceeds 100 ft in one mile, and, in parts of the lake basin, less than five ft in one mile.

Grand Forks AFB is located within the Central Lowlands physiographic province. The topography of Grand Forks County, and the entire Red River Valley, is largely a result of the former existence of Glacial Lake Agassiz, which existed in this area during the melting of the

last glacier, about 12,000 years ago (Stoner et al., 1993). The eastern four-fifths of Grand Forks County, including the base, lies in the Agassiz Lake Plain District, which extends westward to the Pembina escarpment in the western portion of the county. The escarpment separates the Agassiz Lake Plain District from the Drift Plain District to the west. Glacial Lake Agassiz occupied the valley in a series of recessive lake stages, most of which were sufficient duration to produce shoreline features inland from the edge of the lake. Prominent physiographic features of the Agassiz Lake Plain District are remnant lake plains, beaches, inter-beach areas, and delta plains. Strandline deposits, associated with fluctuating lake levels, are also present and are indicated by narrow ridges of sand and gravel that typically trend northwest-southwest in Grand Forks County.

Grand Forks AFB lies on a large lake plain in the eastern portion of Grand Forks County. The lake plain is characterized by somewhat poorly drained flats and swells, separated by poorly drained shallow swells and sloughs (Doolittle et al., 1981). The plain is generally level, with local relief being less than one foot. Land at the base is relatively flat; with elevations ranging from 880 to 920 ft mean sea level (MSL) and averaging about 890 ft MSL. The land slopes to the north at less than 12 ft per mile.

3.13.2.2 Soil Type Condition

Soils consist of the Gilby loam series that are characterized by deep, somewhat poorly drained, moderately to slowly permeable soils in areas between beach ridges. The loam can be found from 0 to 12 inches. From 12 to 26 inches, the soil is a mixture of loam, silt loam, and very fine sandy loam. From 26 to 60 inches, the soil is loam and clay loam.

3.13.3 PESTICIDE MANAGEMENT

Pesticides are handled at various facilities including Environmental Controls, Golf Course Maintenance, and Grounds Maintenance. Other organizations assist in the management of pesticides and monitoring or personnel working with pesticides. Primary uses are for weed and mosquito control. Herbicides, such as picloram, nonselective glyphosate and 2, 4-D are used to maintain areas on base. Military Public Health and Bioenvironmental Engineering provide information on the safe handling, storage, and use of pesticides. Military Public Health maintains records on all pesticide applicators. The Fire Department on-base provides emergency response in the event of a spill, fire, or similar type incident.

3.14 ENVIRONMENTAL JUSTICE

Environmental justice addresses the minority and low-income characteristics of the area, in this case Grand Forks County. The county is more than 93 percent Caucasian, 2.3 percent Native American, 1.4 percent African-American, 1 percent Asian/Pacific Islander, less than 1 percent Other, and 1.6 percent "Two or more races". In comparison, the US is 75.2 percent Caucasian, 12.3 African-American, 0.9 percent Native American or Native Alaskan, 3.6 percent Asian, 0.1 Native Hawaiian or Pacific Islander, 5.5 percent Other, and 2.4 percent "Two or more races". Approximately 12.5 percent of the county's population is below the poverty level in comparison to 13.3 percent of the state (US Bureau of the Census, 2002). There are few residences and no

concentrations of low-income or minority populations around Grand Forks AFB.

4.0 ENVIRONMENTAL CONSEQUENCES

4.1 INTRODUCTION

The effects of the proposed action and the alternatives on the affected environment are discussed in this section. The project involves demolition of Centralized Aircraft Support System (CASS) facilities 644, 645 and 646 on Grand Forks AFB.

4.2 AIR QUALITY

4.2.1 Alternative 1 (No Action)

The no action alternative would not impact air quality.

4.2.2 Alternatives 2 (Proposed Action)

No long-term effects; however short term effects involve heavy construction equipment emissions (not a concern as they are mobile sources) and fugitive dust (mentioned on our Title V permit). Air Quality is considered good and the area is in attainment for all criteria pollutants. Fugitive emissions from demolition activities are expected to be below the regulatory threshold and would be managed in accordance with NDAC 33-15-17-03. Best management practices (BMPs) to reduce fugitive emissions would be implemented to reduce the amount of these emissions.

4.2.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.3 NOISE

4.3.1 Alternative 1 (No Action)

The no action alternative would not impact noise generation.

4.3.2 Alternative 2 (Proposed Action)

The short-term operation of heavy equipment in the demolition area would generate additional noise. These noise impacts would exist only during demolition and would cease after completion. The increase in noise from demolition activities would not be significant.

4.3.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.4 WASTES, HAZARDOUS MATERIALS, AND STORED FUELS

4.4.1 Alternative 1 (No Action)

The no action alternative would not impact hazardous or solid waste generation.

4.4.2 Alternative 2 (Proposed Action)

The increase in hazardous and solid wastes from demolition of 644, 645 and 646 would be temporary. An estimated 88,000 pounds of solid waste debris would be disposed of in approved location, such as the Grand Forks Municipal Landfill, which is located within 12 miles of the proposed site. Facilities 644, 645 and 646 were built in 1991. The identically-constructed facilities have metal beams, with metal siding, fiberglass insulation, and a cement floor. There is no ceiling tile, floor tile, nor sheetrock in the buildings. In the event there is asbestos-containing material (ACM) within the electrical cabinets, all measures will be taken to minimize the disturbance of any ACM and prevent any asbestos fiber release episodes in all areas. Removal of any friable asbestos-containing material will be accomplished in accordance with section 33-15-13-02 of the North Dakota air pollution control rules. All solid waste materials would be managed and transported in accordance with the state's solid and hazardous waste rules. Appropriate efforts to reduce, reuse and/or recycle waste materials are encouraged by the State of North Dakota. Inert waste should be segregated from non-inert waste, where possible, to reduce the cost of waste management. Petroleum contaminated soils generated from demolition of 644, 645 and 646 can be treated at the land treatment facility located on the southwest side of the airfield.

Since Buildings 644, 645 and 646 were constructed in 1991, it is assumed there will not be interior or exterior subsurfaces coated with lead-base paint. However, in the event there is, the removal of lead-based paint must be properly handled to reduce or prevent exposing workers and building occupants to lead. The materials must be handled by properly trained individuals for removal and disposal.

4.4.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.5 WATER RESOURCES

4.5.1 Alternative 1 (No Action Alternative)

The no action alternative would have no impact on groundwater, surface water, wastewater, water quality, or wetlands.

4.5.2 Alternative 2 (Proposed Alternative)

Groundwater: Excavation could potentially intercept the high water table. If the excavated area fills with groundwater, water could be directly exposed to contaminants released from demolition equipment. The potential for release is minimal.

Surface Water: Surface water quality could degrade in the short-term, during actual demolition, due to possible erosion contributing to turbidity of runoff. Surface water could also be impacted if, due to ground water inflow to the excavation, the contractor would need to pump out the excavation. The contractor shall deploy silt fences and hay bales to control surface water runoff and to minimize erosion. Proper stabilization and seeding the site immediately upon completion of the demolition would provide beneficial vegetation to control erosion. Minimal impact is expected.

Wastewater: The proposed action would have no impact on wastewater.

Water Quality: The proposed action would have no foreseeable impact to water quality.

Wetlands: There are no wetlands in this area. Activity in any wetlands cannot occur without a Clean Water Act section 404 permit from the Army Corps of Engineers. No dumping, filling, dredging, or changing of the wetland hydrologic structure is permitted without a permit.

4.5.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.6 BIOLOGICAL RESOURCES

4.6.1 Alternative 1 (No Action)

The no action alternative would not impact wildlife, vegetation, or other biological resources.

4.6.2 Alternative 2 (Proposed Action)

Vegetation: BMPs and control measures, including silt fences and covering of stockpiles, would be implemented to ensure that impacts to biological resources be kept to a minimum. The amount of vegetation disturbed would be kept to the minimum required to complete the action. Disturbed areas should be re-established. There would be a short-term minimal loss of vegetation from demolition activities, but an increase in overall vegetative cover. The footprint of the building area and concrete-padded areas shall be reseeded.

Noxious Weeds: Public law 93-629 mandates control of noxious weeds. Limit possible weed seed transport from infested areas to non-infested sites. Avoid activities in or adjacent to heavily infested areas or remove seed sources and propagules from site prior to conducting activities, or limit operations to non-seed producing seasons. Wash or otherwise remove all vegetation and soil from equipment before transporting to a new site. Following activities which expose the soil, mitigate by covering the area with weed seed free mulch and/or seed the area with native

species. Covering the soil will reduce the germination of weed seeds, maintain soil moisture, and minimize erosion. If any fill material is used, it should be from a weed-free source.

Wildlife: Construction would have minimal impacts to wildlife, as each of the buildings are small and isolated. These areas are improved and provide foraging habitat for mammals, such as mice, rabbits, badgers, fox, coyote, and large ungulates such as white-tailed deer. The area is also host to several grassland bird species. Due to the abundance and mobility of these species and the profusion of similar landscaped areas in the general vicinity, any wildlife disturbed would be able to find similar habitat in the local area.

Threatened or Endangered Species: According to the Biological Surveys of 1994 and 2004, and bird surveys of 2001, 2004, and 2005, Grand Forks AFB has 56 bird species of concern: 1 federally threatened, 8 state-threatened and endangered, 29 state species of concern, 17 USFWS birds of conservation concern, and 22 DOD partners-in-flight species. In addition, referencing the 1994 and 2004 biological surveys, there are 2 state-listed plant species, 1 state-listed mammal species, and 1 state-listed amphibian identified at GFAFB. The federally listed bird species (the Bald Eagle) has no critical habitat at GFAFB. Proposed activities should have minimal impact on these sensitive species, given all proposed demolition actions are associated with buildings 644, 645 and 646 that are located in the well-maintained airfield area. No sensitive species have been identified in the vicinity of the proposed work area.

4.6.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.7 SOCIOECONOMIC RESOURCES

4.7.1 Alternative 1 (No Action)

The no action alternative would not impact socioeconomics.

4.7.2 Alternative 2 (Proposed Action)

Secondary retail purchases would make an additional contribution to the local communities. The implementation of the proposed action, therefore, would provide a short-term, minimal beneficial impact to local retailers during the demolition phase of the project. There would be no long term impact to socioeconomic resources.

4.7.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.8 CULTURAL RESOURCES

4.8.1 Alternative 1 (No Action)

The no action alternative would not impact cultural resources.

4.8.2 Alternative 2 (Proposed Action)

Buildings 644, 645 and 646 are not among the buildings that are National Register eligible. The proposed action has little potential to impact cultural resources. In the unlikely event any such artifacts were discovered during the demolition activities, the contractor would be instructed to halt demolition and immediately notify Grand Forks AFB civil engineers who would notify the State Historic Preservation Officer. The SHPO shall be notified of the planned buildings' demolition and no affect determination for building demolition should be sought.

4.8.3 Alternative 3

Alternative impacts would be similar to those generated under the proposed action.

4.9 LAND USE

4.9.1 Alternative 1 (No Action)

The no action alternative would not have an impact on land use.

4.9.2 Alternative 2 (Proposed Action)

The proposed operation would not have an impact on this land use currently designated for airfield use.

4.9.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.10 TRANSPORTATION SYSTEMS

4.10.1 Alternative 1 (No Action)

The action would not impact transportation.

4.10.2 Alternative 2 (Proposed Action)

The proposed action would have minimal adverse impact to transportation systems on base due to vehicles traveling to and from building 644, 645 and 646 during demolition.

4.10.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.11 AIRSPACE/AIRFIELD OPERATIONS

4.11.1 Alternative 1 (No Action)

The no action alternative would not impact aircraft safety or airspace compatibility.

4.11.2 Alternative 2 (Proposed Action)

The proposed action will have a positive impact on aircraft safety and airspace compatibility with the deletion of three airfield waivers.

4.11.3 Alternative 3

Impacts would be similar to those generated under the no action alternative.

4.12 SAFETY AND OCCUPATIONAL HEALTH

4.12.1 Alternative 1 (No Action)

The no action alternative would not impact safety and occupational health.

4.12.2 Alternative 2 (Proposed Action)

The proposed action would have no significant impact on safety and occupational health. Participants are required to wear appropriate personnel protective equipment (PPE).

4.12.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.13 ENVIRONMENTAL MANAGEMENT

4.13.1 Alternative 1 (No Action)

The no action alternative would not impact ERP Sites or geological resources.

4.13.2 Alternative 2 (Proposed Action)

ERP: Provided best management practices (BMP) are followed, the proposed action would not impact ERP Sites. The monitoring wells in the area should not be disturbed. Any excavation in this area needs to be reviewed by Bioenvironmental Engineering for worker protection. Environmental Engineering must notify the NDDH for work on the site.

Geology: The proposed action would not impact geological resources. Soils present in the proposed area include the Gilby series.

Pesticides: No pesticides would be used during the demolition of building 644, 645 and 646.

4.13.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.14 ENVIRONMENTAL JUSTICE

4.14.1 Alternative 1 (No Action)

The no action alternative would not impact environmental justice.

4.14.2 Alternative 2 (Proposed Action)

EO 12898 requires federal agencies to identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority and low-income populations. There are no minority or low-income populations in the area of the proposed action or alternatives, and, thus, there would be no disproportionately high or adverse impact on such populations.

4.14.3 Alternative 3

Impacts would be similar to those generated under the proposed action.

4.15 INDIRECT AND CUMULATIVE IMPACTS

The short-term increases in air emissions and noise during demolition and the impacts predicted for other resource areas, would not be significant when considered cumulatively with other ongoing and planned activities at Grand Forks AFB and nearby off-base areas. The cumulative impact of the Proposed Action or Alternative with other ongoing activities in the area would produce an increase in solid waste generation; however, the increase would be limited to the timeframe of each project. The area landfills used for demolition and construction debris do not have capacity concerns, and could readily handle the solid waste generated by the various projects.

4.16 UNAVOIDABLE ADVERSE IMPACTS

The proposed action and alternatives would involve the use of demolition related vehicles, and their short-term impacts on noise, air quality, and traffic are unavoidable.

4.17 RELATIONSHIP BETWEEN SHORT-TERM USES AND ENHANCEMENT OF LONG-TERM PRODUCTIVITY

The proposed action and alternatives would involve the use of previously developed areas. No croplands, pastureland, wooded areas, or wetlands would be modified or affected as a result of implementing the Proposed Action and, consequently, productivity of the area would not be degraded.

4.18 IRREVERSIVLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

Under the proposed action, fuels, manpower, economic resources, and other recovery materials related to the demolition of building 644, 645 and 646 would be irreversibly lost.

5.0 LIST OF PREPARERS

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Bismarck, ND 58505-0200

Mr. Merlan E. Paaverud
State Historic Preservation Officer
State Historical Society of North Dakota
612 East Boulevard Ave
Bismarck ND 58505-0200

Mr. Terry Steinwand
Commissioner
North Dakota Game and Fish
100 North Bismarck Expressway
Bismarck, ND 58501

Mr. Larry Knudtson, Planning
North Dakota State Water Commission
900 E Boulevard Ave, Dept 770
Bismarck ND 58505-0850

Mr. Jeffrey Towner
U.S. Fish & Wildlife Service
3425 Miriam Avenue
Bismarck ND 58501

7.0 REFERENCES

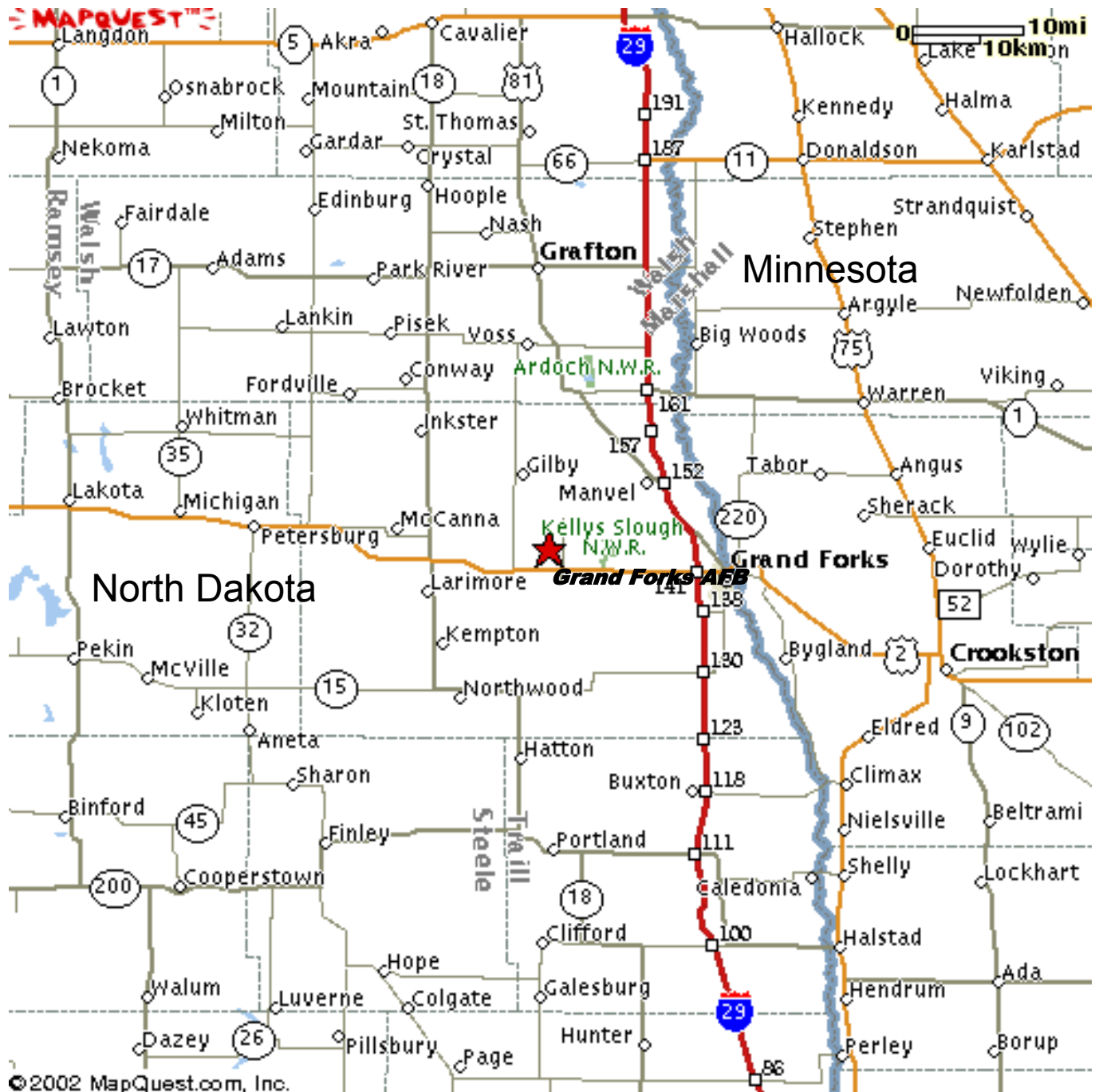
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APPENDIX A
LOCATION MAP – GRAND FORKS AFB

Grand Forks AFB, ND

Location Map













State Boundary

APPENDIX B
CULTURAL RESOURCE PROBABILITY MAP

Figure 3.5
Survey Areas and
Probabilities

Grand Forks Air Force Base
Cultural Resources Management Plan

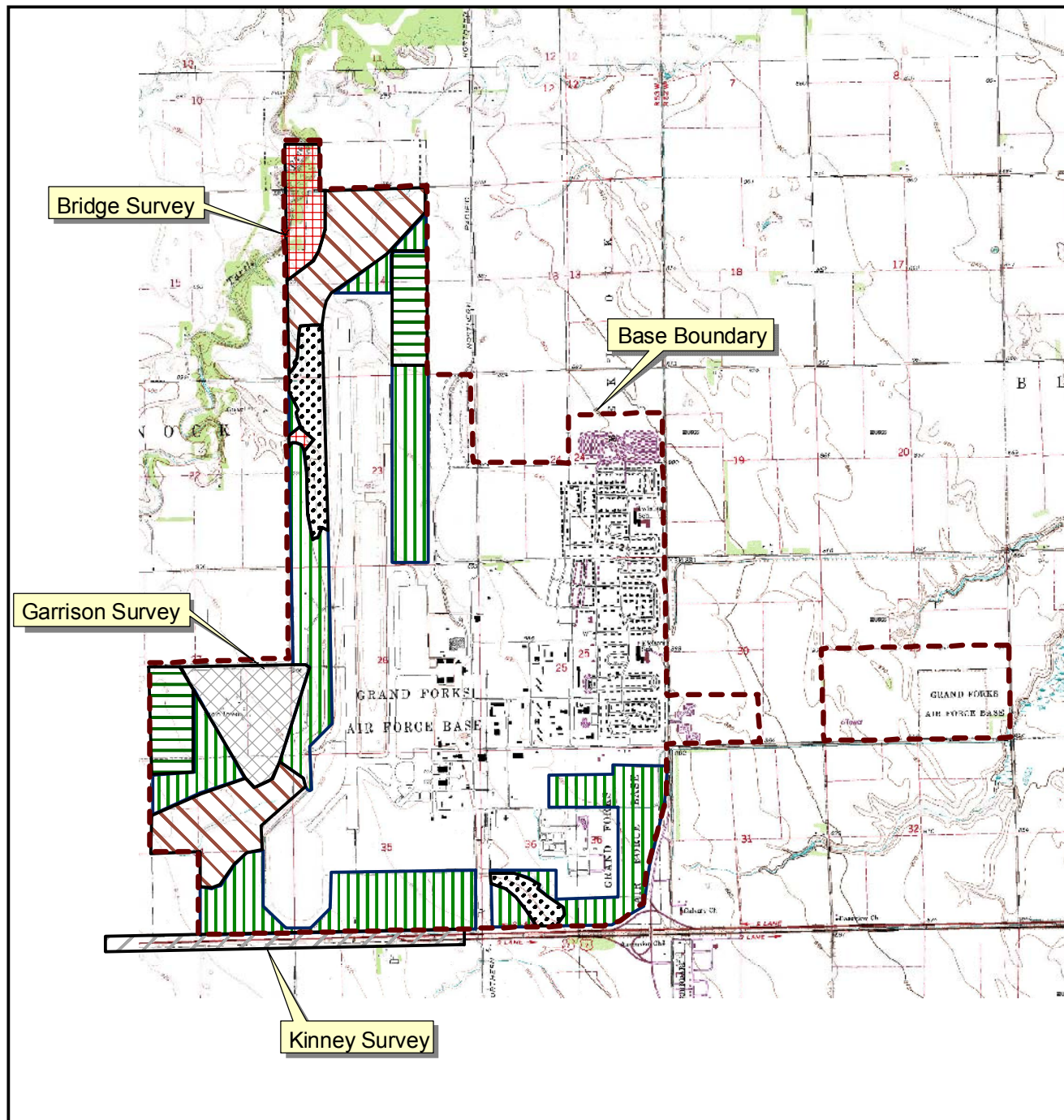
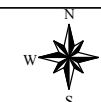
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-  Historic Bridge Inventory Survey
-  Base Boundary
-  High Probability
-  Medium Probability (near water)
-  Kinney Survey
-  Medium Probability (beach ridge)
-  Peace Keeper Rail Garrison Survey
-  Low Probability (distance from water)
-  Low Probability (10% sample)
-  Previously Disturbed

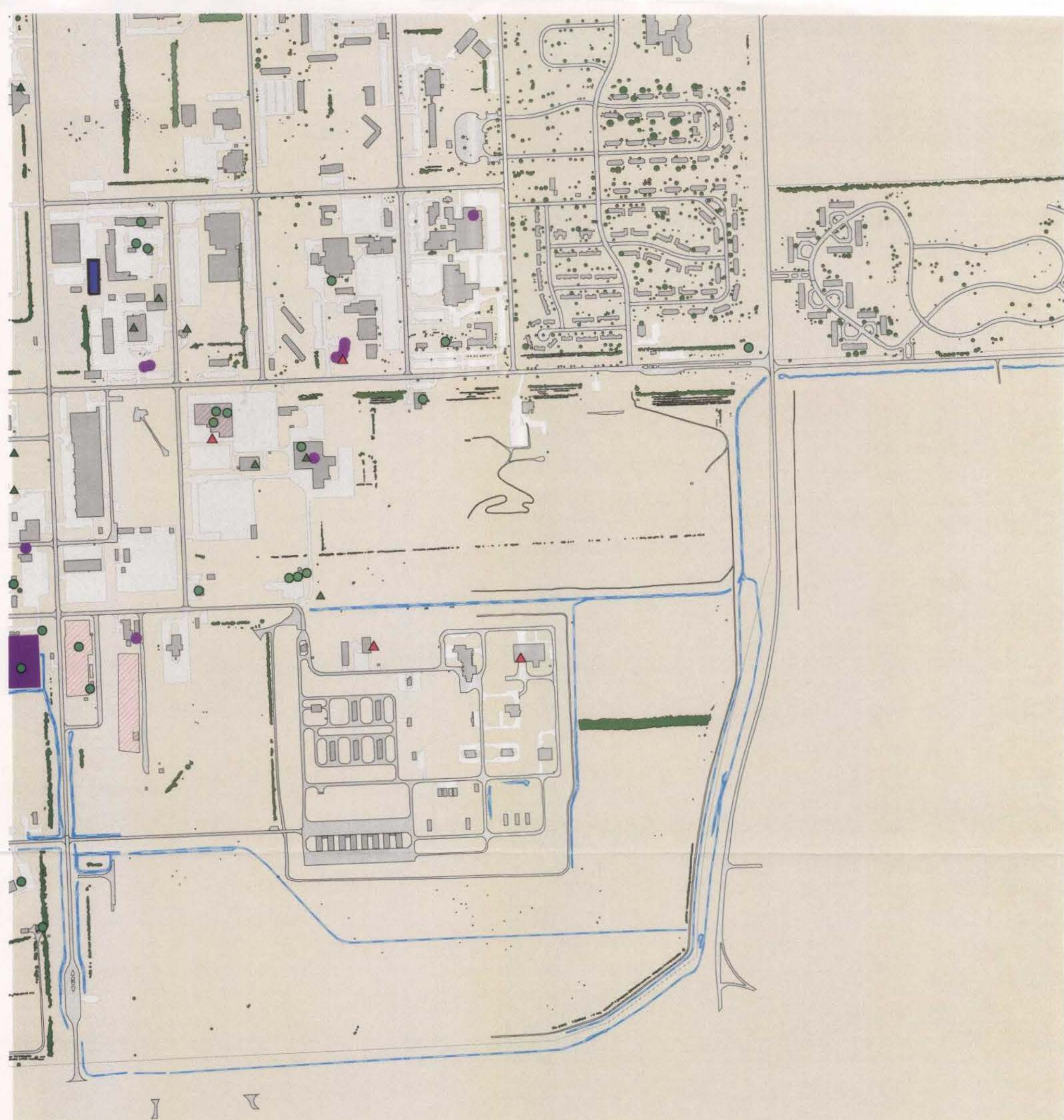
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APPENDIX C
ENVIRONMENTAL SITE MAP



Grand Forks AFB Environmental Sites (SE)

- Above Ground Storage Tanks (Fuel)
- Abandoned Fuel Lines
- Building 622 - Acid Dip Room
- Helicopter Wash Area
- Oil/Water Separator
- Satellite Accumulation Areas (Haz Waste)
- Scrap Storage Area
- S.H.P.O. (Buildings under consideration)
- Underground Waste Storage
- Underground Storage Tanks (Fuel)
- Ditches/Streams
- IRP Sites
- Landfill Caps
- Trees

Hydrography-flood zone area
 floodplain zone centroid



08 May 01/KS



Grand Forks AFB Environmental Sites (NE)

- Above Ground Storage Tanks (Fuel)
- ▲ Abandoned Fuel Lines
- ▲ Building 622 - Acid Dip Room
- Helicopter Wash Area
- ▲ Oil/Water Separator
- ▲ Satellite Accumulation Areas (Haz Waste)
- ▲ Scrap Storage Area
- S.H.P.O. (Buildings under consideration)
- ▲ Underground Waste Storage
- Underground Storage Tanks (Fuel)
- Ditches/Streams
- IRP Sites
- Landfill Caps
- Trees
- Hydrography-flood zone area
- floodplain zone centroid



Grand Forks AFB Environmental Sites (NW)

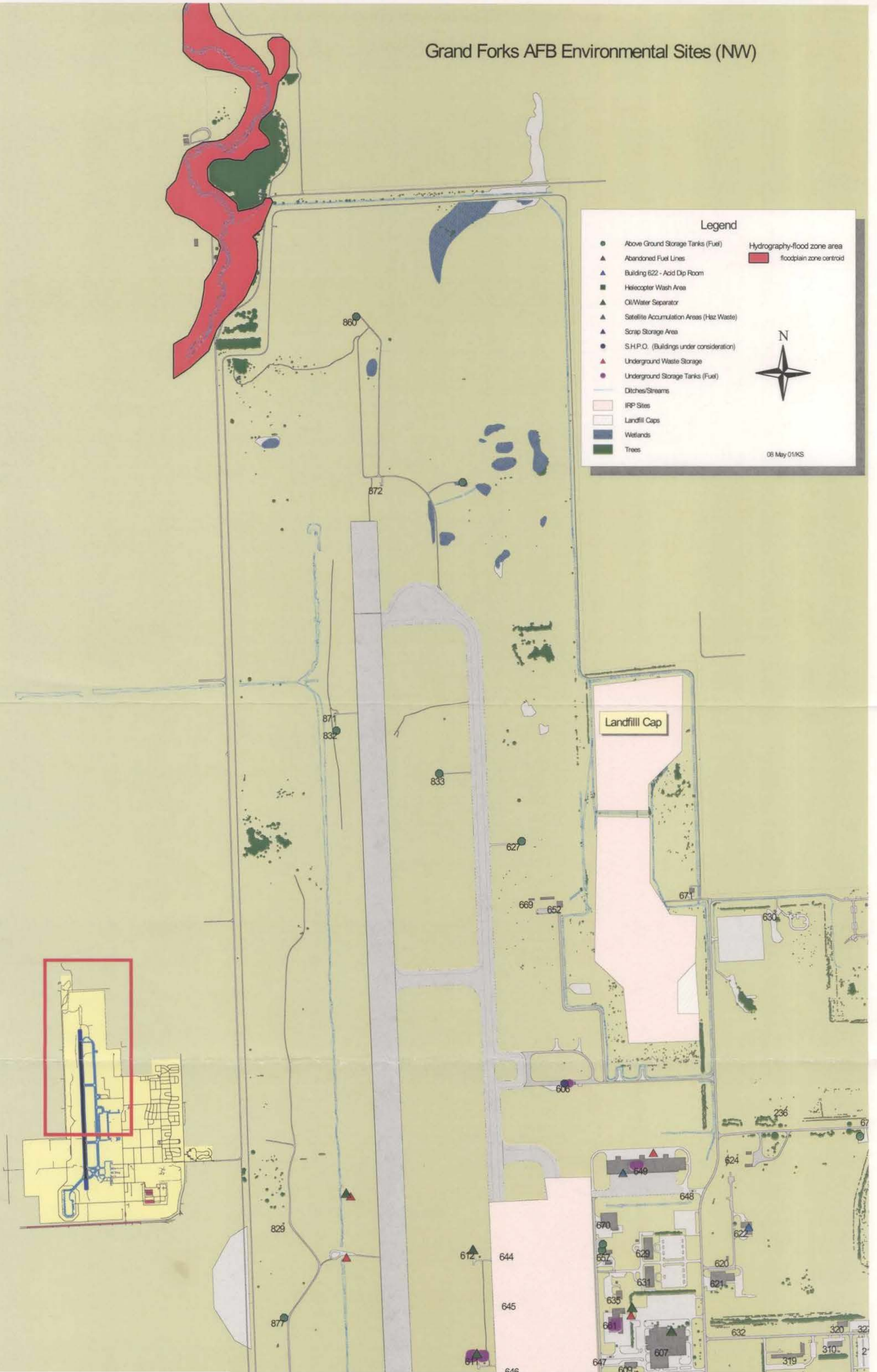
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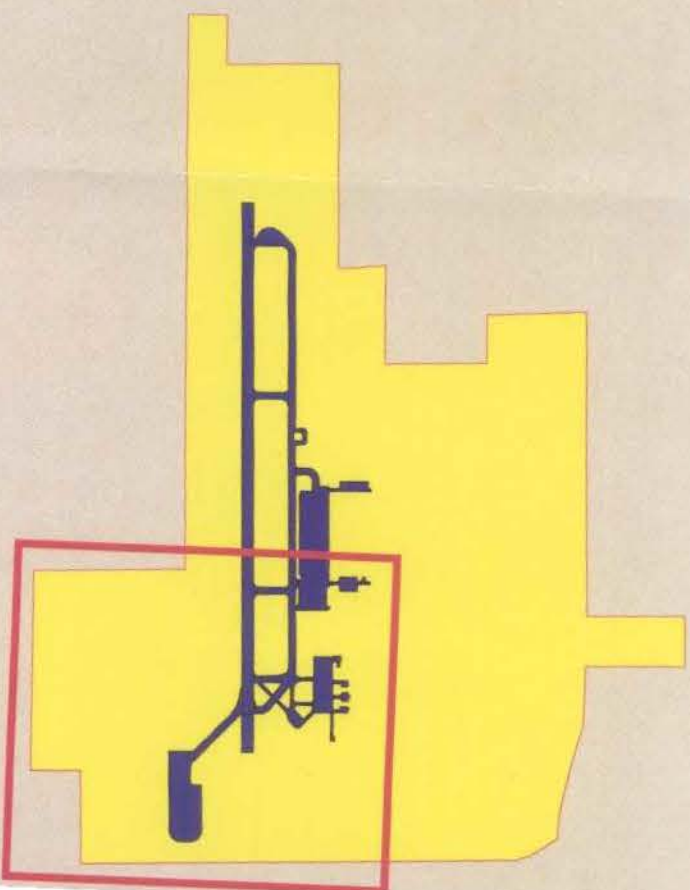
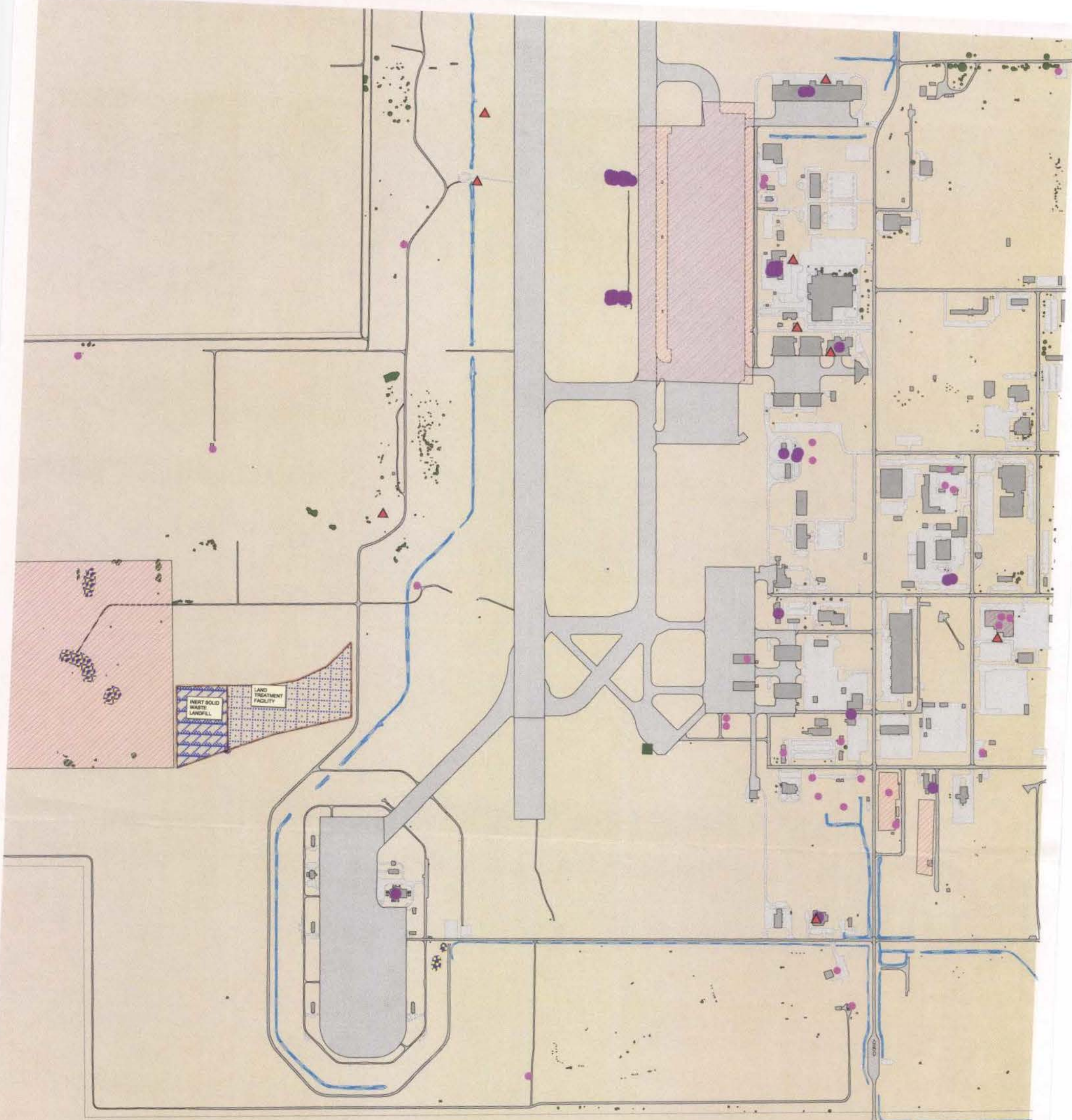
- Above Ground Storage Tanks (Fuel)
- ▲ Abandoned Fuel Lines
- ▲ Building 622 - Acid Dip Room
- Helicopter Wash Area
- ▲ Oil/Water Separator
- ▲ Satellite Accumulation Areas (Haz Waste)
- ▲ Scrap Storage Area
- S.H.P.O. (Buildings under consideration)
- ▲ Underground Waste Storage
- Underground Storage Tanks (Fuel)
- Ditches/Streams
- IRP Sites
- Landfill Caps
- Wetlands
- Trees

Hydrography-flood zone area
floodplain zone centroid

N

08 May 01/KS





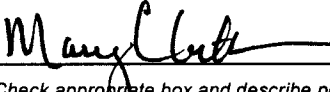
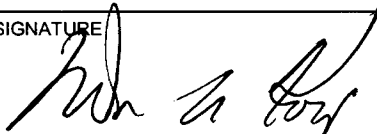
Grand Forks AFB Environmental Sites (SW)

- Above Ground Storage Tanks (Fuel)
- ▲ Abandoned Fuel Lines
- ▲ Building 622 - Acid Dip Room
- Helicopter Wash Area
- ▲ Oil/Water Separator
- ▲ Satellite Accumulation Areas (Haz Waste)
- ▲ Scrap Storage Area
- S.H.P.O. (Buildings under consideration)
- ▲ Underground Waste Storage
- Underground Storage Tanks (Fuel)
- Ditches/Streams
- IRP Sites
- Landfill Caps
- Trees
- Wetlands

Hydrography-flood zone area
floodplain zone centroid



APPENDIX D
AF FORM 813
REAL PROPERTY RECORD CARDS

REQUEST FOR ENVIRONMENTAL IMPACT ANALYSIS		Report Control Symbol RCS: 2006-176	
INSTRUCTIONS: Section I to be completed by Proponent; Sections II and III to be completed by Environmental Planning Function. Continue on separate sheets as necessary. Reference appropriate item number(s).			
SECTION I - PROPONENT INFORMATION			
1. TO (Environmental Planning Function) 319 CES/CEVA	2. FROM (Proponent organization and functional address symbol) 319 CES/CD	2a. TELEPHONE NO. 701-747-4761	
3. TITLE OF PROPOSED ACTION Demolish Buildings 644, 645 and 646 and all associated equipment and utilities (JFSD200373).			
4. PURPOSE AND NEED FOR ACTION (Identify decision to be made and need date) Grand Forks AFB proposes to demolish the CASS Switch Stations on project number JFSD200373. Facilities were constructed for the B-1 Lancer Bomber and are no longer needed. The CASS switch stations have not been used for several years.			
5. DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES (DOPAA) (Provide sufficient details for evaluation of the total action.) Demolish Buildings 644, 645 and 646. Excavate, remove and dispose of all associated structures, piping, communications, electronics, lighting, utilities and debris. (see reverse) (see attached map and photos)			
6. PROPONENT APPROVAL (Name and Grade) MARY C. GILTNER, GM-13 Deputy Base Civil Engineer	6a. SIGNATURE 	6b. DATE 5-15-06	
SECTION II - PRELIMINARY ENVIRONMENTAL SURVEY. (Check appropriate box and describe potential environmental effects including cumulative effects.) (+ = positive effect; 0 = no effect; - = adverse effect; U = unknown effect)			
7. AIR INSTALLATION COMPATIBLE USE ZONE/LAND USE (Noise, accident potential, encroachment, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -
8. AIR QUALITY (Emissions, attainment status, state implementation plan, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -
9. WATER RESOURCES (Quality, quantity, source, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -
10. SAFETY AND OCCUPATIONAL HEALTH (Asbestos/radiation/chemical exposure, explosives safety quantity-distance, bird/wildlife aircraft hazard, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -
11. HAZARDOUS MATERIALS/WASTE (Use/storage/generation, solid waste, etc.)	<input type="checkbox"/> +	<input type="checkbox"/> 0	<input checked="" type="checkbox"/> -
12. BIOLOGICAL RESOURCES (Wetlands/floodplains, threatened or endangered species, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -
13. CULTURAL RESOURCES (Native American burial sites, archaeological, historical, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -
14. GEOLOGY AND SOILS (Topography, minerals, geothermal, Installation Restoration Program, seismicity, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -
15. SOCIOECONOMIC (Employment/population projections, school and local fiscal impacts, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -
16. OTHER (Potential impacts not addressed above.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -
SECTION III - ENVIRONMENTAL ANALYSIS DETERMINATION			
17. <input type="checkbox"/> PROPOSED ACTION QUALIFIES FOR CATEGORICAL EXCLUSION (CATEX) # _____ ; OR <input checked="" type="checkbox"/> PROPOSED ACTION DOES NOT QUALIFY FOR A CATEX; FURTHER ENVIRONMENTAL ANALYSIS IS REQUIRED.			
18. REMARKS This action is not "regionally significant" and does not require a conformity determination in accordance with 40 CFR 93.153(1). The total emission of criteria pollutants from the proposed action are below the de minimus thresholds and less than 10 percent of the Air Quality Region's planning inventory.			
19. ENVIRONMENTAL PLANNING FUNCTION CERTIFICATION (Name and Grade) WAYNE A. KOOP, R.E.M., GS-13 Environmental Management Flight Chief	19a. SIGNATURE 	19b. DATE 10 MAY 06	

- 4.0 Purpose and Need for Action, RCS # 2006-176, Demolish Buildings 644, 645 and 646 (JFSD200373)
- 4.1 Purpose of the Action (mission objectives-who proposes to do what, where, when): Grand Forks AFB proposes to demolish Buildings 644, 645 and 646 on project number JFSD200373. The metal facilities contain the electronic and electrical cabinets of the CASS, Centralized Aircraft Support System, installed in 1991, located between Charlie Ramp and the taxiway. See attached maps and photos.
- 4.2 Need for the Action (why this action is desired or required-why here, why now): Facilities were constructed to support the B-1B Lancer bomber aircraft era and are no longer needed. The CASS switch stations have not been used since 1994. The facilities continue to degenerate from non-use.
- 4.3 Objectives for the Action (what goal do you wish to accomplish): Demolish Buildings 644, 645 and 646 to provide room for a new mission, or a new use of the land area, and eliminate three airfield waivers.
- 4.4 Related EISs/EAs and other documents (similar projects in the past): 1985-011, CASS Equipment Facilities & Installation.
- 4.5 Decision that must be made: Demolish Buildings 644, 645 and 646 and all associated equipment and utilities.
- 4.6 Applicable Regulatory Requirements and Required Coordination-- required permits, licenses, entitlements: Applicable regulatory requirements and required coordination before and during construction include a Work Clearance Request, Stormwater Protection Plan, Dust Control Plan, Spill Control Plan, and Erosion and Sediment Control Plan to the CEV Water Program Manager; a Spill Control Plan and Waste Disposal Plan to the CEV Pollution Prevention Manager; and copies of all plans to the Contracting Officer.
- 5.0 Description of Proposed Action and Alternatives
- 5.1 Description of the proposed action (in brief, introduction): Demolish Buildings 644, 645 and 646 and all associated utilities.
- 5.2 Selection criteria for Alternatives
- 5.2.1 Minimum mission requirements: effectiveness, timeliness, cost effective, legality, safety, efficiency, force protection.
- 5.2.2 Minimum environmental standards : noise, air, water, safety, HW, vegetation, cultural, geology, soils, socioeconomic.
- 5.3 Alternatives Considered but Eliminated from Detailed Study: None
- 5.4 Description of proposed alternatives
- 5.4.1 No-action alternative: The no action alternative would be to leave the facilities as they are. The existing CASS switch station facilities 644, 645 and 646 will continue to remain a waived airfield obstruction. Buildings 644, 645 and 646 will continue to be unused, abandoned facilities requiring maintenance and repair.
- 5.4.2 Proposed Action: Grand Forks AFB proposes to demolish the CASS switch stations, Buildings 644, 645 and 646, on project number JFSD200373. Excavate, remove and dispose of all associated structures, piping, electronics, communications, lighting, utilities and debris, including pad mount transformers to the southwest of each facility. Backfill and compact the site excavation area. Remove all utilities to the junction point nearest the taxiway and ramp. Cap utilities as needed. Deliver the transformers to the base electric shop once power is terminated. Recycle the electronics and metals. Remove all hazardous materials, such as lead, lead-base paint, mercury, asbestos, etc., according to the latest federal, state or local codes. All hazardous material abatement, such as PCB ballast or mercury switch removal, shall be complete before the building demolition commences. The building foundation and footings shall be entirely removed to ten feet below the existing surface. Off-site clean fill shall be used to backfill. Concrete may not be used as site fill. The backfill material shall be free of bentonite, trash, frozen or organic material including lignites, humus, sod, grass, roots or other vegetation. The backfill material shall not be of a size greater than 3 inches, may not contain more than 12 percent shale, and not may contain greater than 20% sand. A minimum of six inches of topsoil shall be placed over the site and graded to match surrounding contours and be sodded. The concrete from the foundations may be salvaged by the contractor or hauled to a licensed landfill. Soil remediation and testing will not be necessary at Building 646 as the site is an active Environmental Restoration Program (ERP) site with five ground water monitoring wells to the north, east and south. The contractor shall avoid the monitoring wells and is responsible for any damage to the wells.
- 5.4.3 Another Reasonable Action Alternative: Remodel and reutilize the facilities for another mission.
- 5.5 Description of Past and Reasonably Foreseeable Future Actions Relevant to Cumulative Impacts: There are several other construction and demolition projects occurring on Grand Forks AFB in the same time frame. These projects are addressed under separate NEPA documents.
- 5.6 Recommendation of preferred alternative: Demolish Buildings 644, 645 and 646 and all associated equipment and utilities.

AF FORM 1430 REPLACES DA FORM 3-47. 1 NOV 45 WHICH IS
15 JUN 56 OBSOLETE IN THE USAF.

REAL PROPERTY ACCOUNTABLE RECORD - BUILDINGS

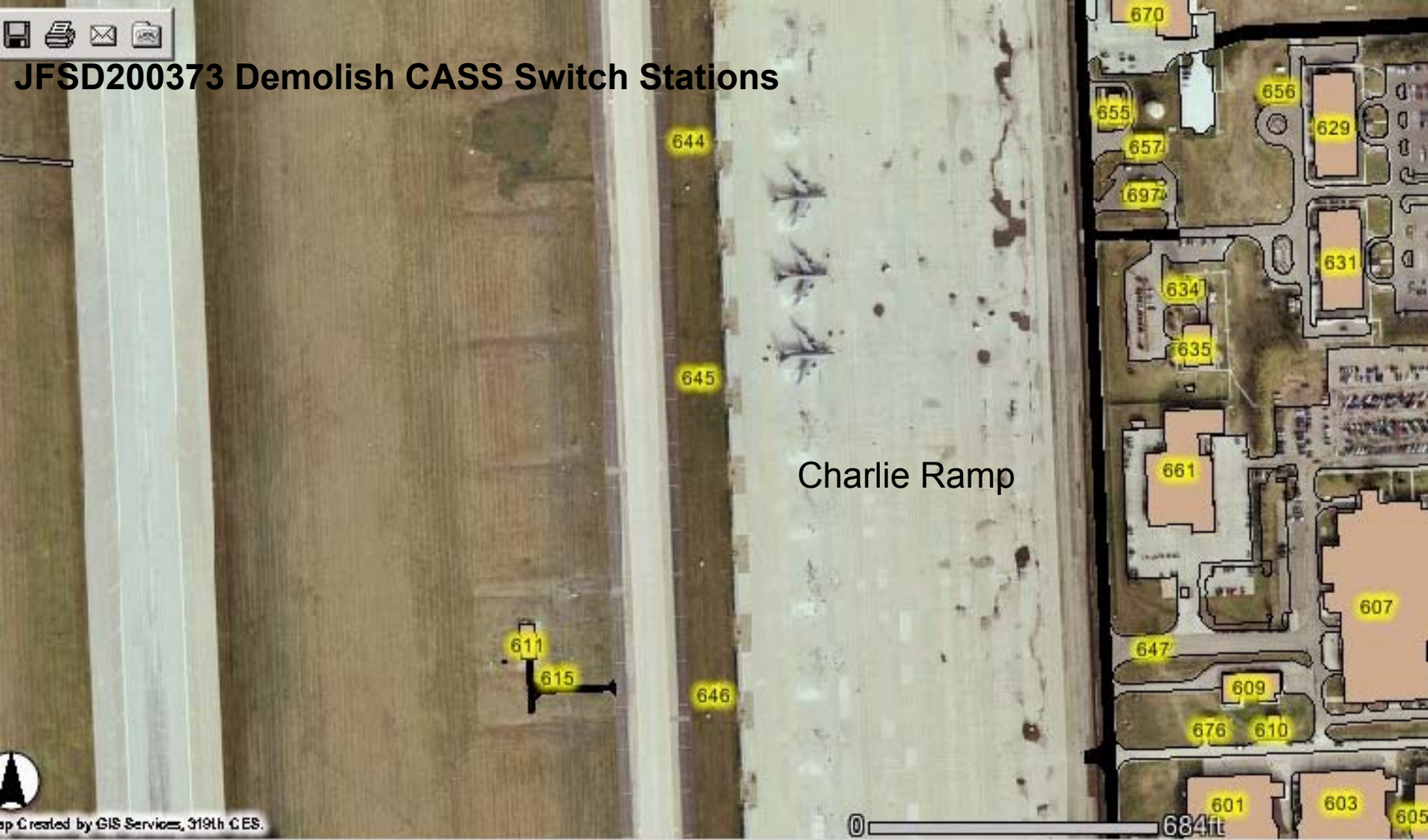
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INSTALLATION NAME AND NO.				DATE		DRAWING NO.		BUILDING NO.					
DIMENSIONS (Width x length)						STATE ASSIGNMENT TYPE OF CONSTRUCTION CONDITION OCCUPANCY AIR FORCE INTEREST UNIT OF MEASURE (Other than area) QUANTITY NOMENCLATURE <i>ELECT SWITCH BLDG</i> CATEGORY <i>813-228</i> REMARKS							
MAIN BUILDING		OFFSETS		WINGS						BASEMENTS			
MATERIALS						EA 1							
FOUNDATION		FLOOR		WALL						ROOF			
HEATING						EA 1							
SOURCE		TYPE			FUEL								
NO. OF USABLE FLOORS		FIRE PROTECTION				EA 1							
		NO.		TYPE									
UTILITY CONNECTIONS				BLDG EQPT		NO.		TOTAL CAPACITY					
WATER				AIR CONDITIONING									
SEWER													
ELECTRIC				EVAPORATIVE COOLING									
GAS				MECHANICAL COOLING									
STEAM													
CONDENSATE				HOT WATER FACILITIES									
VOUCHER NO.		DATE		DESCRIPTION		DATE COMPLETED		AREA UNIT		COST		TOTAL COST	
								AMOUNT		TOTAL <i>SF</i>			
<i>920013</i>		<i>27 Nov 91</i>		<i>Const Elect Switch Bldg For CASS</i>						<i>168</i>		<i>12,863.46</i>	
BALANCES FORWARDED													

GFAFB				27 Nov 91		JFSD		646					
INSTALLATION NAME AND NO.				DATE		DRAWING NO.		RP ACCOUNT NO.		CONTROL NO.		BUILDING NO.	
DIMENSIONS (Width x length)												CODE	
MAIN BUILDING		OFFSETS		WINGS		BASEMENTS		STATE					
								ASSIGNMENT					
								TYPE OF CONSTRUCTION					
FOUNDATION		FLOOR		WALL		ROOF		CONDITION					
HEATING								OCCUPANCY					
SOURCE		TYPE				FUEL		AIR FORCE INTEREST					
NO. OF USABLE FLOORS		FIRE PROTECTION						UNIT OF MEASURE (Other than area)				EA	
		NO.		TYPE				QUANTITY					
UTILITY CONNECTIONS				BLDG EQPT		NO.		TOTAL CAPACITY		REMARKS <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> NOMENCLATURE ELECT SWITCH BLDG </div> <div style="border: 1px solid black; padding: 5px;"> CATEGORY 8/3-228 </div>			
WATER		AIR CONDITIONING											
SEWER													
ELECTRIC		EVAPORATIVE COOLING											
GAS		MECHANICAL COOLING											
STEAM													
CONDENSATE		HOT WATER FACILITIES											
VOUCHER NO.		DATE		DESCRIPTION		DATE COMPLETED		AREA UNIT		COST		TOTAL COST	
								AMOUNT TOTAL SF					
920013		27 Nov 91		Const. Elect Switch Bldg for OASS 2				168				12,863 46	
BALANCES FORWARDED													

APPENDIX E
LOCATION MAP OF BUILDING 644, 645 and 646



JFSD200373 Demolish CASS Switch Stations

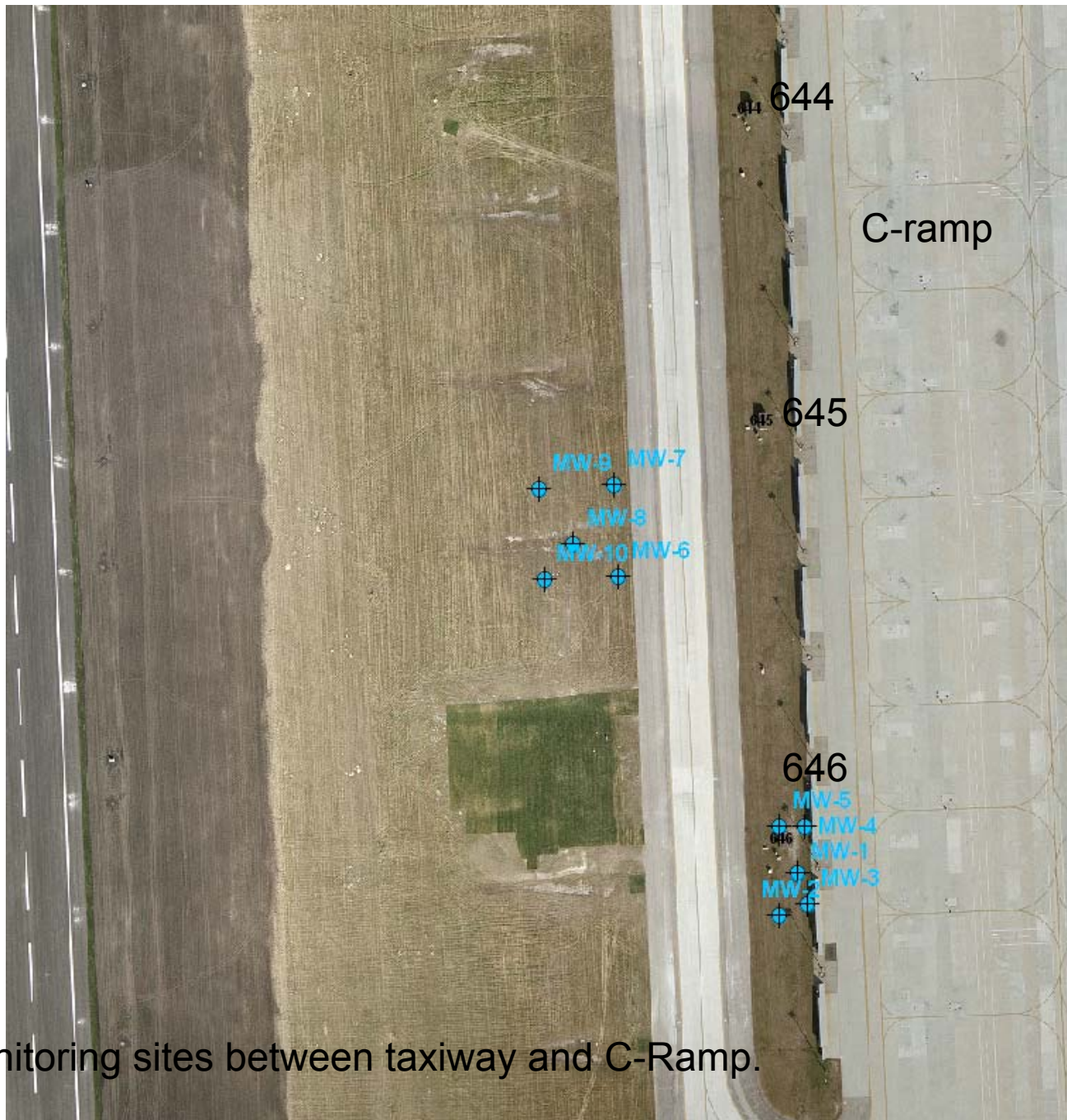


Map Created by GIS Services, 319th CES.

Base Buildings

Rec	Description	Address	Building Number
1	ELEC SWITCH STN		644
2	ELEC SWITCH STN		645
3	ELEC SWITCH STN		646

Zoom to these records



IRP monitoring sites between taxiway and C-Ramp.



APPENDIX F
PHOTOGRAPHS

DEMO CASS SWITCH STATIONS













AFFIDAVIT OF PUBLICATION

STATE OF NORTH DAKOTA }
COUNTY OF GRAND FORKS } SS.

Public Notices

Air Force Base
Public Notice

Grand Forks Air Force Base has proposed the demolition of three switch station facilities (644, 645 and 646) on base.

An environmental assessment has been conducted and a finding of no significant impact has been determined for this action.

Anyone wishing to view the support documents to this action should contact the 319th Air Refueling Wing Public Affairs Office within the next 30 days at 747-5017 or 747-5608.
(May 18, 20, 2006)

W. Byrge of said State and County being first duly sworn, on oath says:

That { she } is { a representative of the GRAND FORKS HERALD, INC.,
he }

publisher of the Grand Forks Herald, Morning Edition, a daily newspaper of general circulation, printed and published in the City of Grand Forks, in said County and State, and has been during the time hereinafter mentioned, and that the advertisement of

Demolition of 644, 645, 646

a printed copy of which is hereto annexed, was printed and published in every copy of the following issues of said newspaper, for a period of 2 time (s) to wit:

<u>S-18</u>	Yr. <u>06</u>	Yr. _____
<u>S-20</u>	Yr. <u>06</u>	Yr. _____
_____	Yr. _____	Yr. _____
_____	Yr. _____	Yr. _____

and that the full amount of the fee for the publication of the annexed notice inures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for a division thereof has been made with any other person and that no part thereof has been agreed to be paid to any person whomsoever and the amount of said fee is \$ 18.46;

Publication Fee \$ 18.46

That said newspaper was, at the time of the aforesaid publication, the duly elected and qualified Official Newspaper within said County, and qualified in accordance with the law of the State of North Dakota to do legal printing in said County and State.

Subscribed and sworn to before me this 26 day of

May A.D. 06

Elaine Fawcett
Notary Public, Grand Forks, ND

ELAINE FAWCETT
NOTARY PUBLIC
STATE OF NORTH DAKOTA
My Commission Expires: Feb. 7, 2007

Public Notices

IN DISTRICT COURT, GRAND FORKS COUNTY, NORTH DAKOTA
In the Matter of the Estate of ELIZABETH ESTHER BOULDEN, aka BETTY BOULDEN, Deceased

Probate No. 18-06-P-49
NOTICE TO CREDITORS

NOTICE IS HEREBY GIVEN that Keith O. Boulden and Cameron P. Boulden have been appointed co-personal representatives of the estate of Elizabeth Esther Boulden, aka Betty Boulden, on the 19th day of April 2006. All persons having claims against Elizabeth Esther Boulden, aka Betty Boulden, are required to present their claims within three months after the date of the first publication of this notice, or said claims will be forever barred. Claims must either be presented to Keith O. Boulden or Cameron P. Boulden, co-personal representatives of the estate, at c/o DON HAGER LAW OFFICES, P.O. Box 500, Larimore, North Dakota 58251, or filed with the above Court.

Dated this 24th day of April 2006.
Keith O. Boulden

Co-Personal Representative
Cameron P. Boulden
Co-Personal Representative

DON HAGER, Esq.
Don Hager Law Offices
226 Townner Avenue
P.O. Box 500
Larimore, N.D. 58251
Tel. (701) 343-6487
N.D. License #04382
Attorney for Estate

(May 4, 11 & 18, 2006)

SECTION 00020
INVITATION TO BID
PROJECT: Tower Addition and Packaging Conveyor Line
North Dakota Mill & Elevator Association

Grand Forks, North Dakota
BIDS CLOSE: Thursday, May 25, 2006 at 2:00 PM Local Time. Bids will be opened at that time.

DATE OF ISSUE: May 2006
OUTLINE OF PROJECT: Addition of a tower and packaging conveyor line. Work includes demolition, excavating, concrete foundations and slabs, structural steel framing, miscellaneous metals, insulation, metal panel roofing and siding and installation of Owner furnished equipment. The Owner will complete mechanical HVAC and electrical work.

TYPE OF BIDS: Single prime bids will be received for all portions of the work.
THE OWNER: North Dakota Mill & Elevator Association

1823 Mill Road
Grand Forks, ND 58203

BID PLACE: The North Dakota Mill & Elevator conference room.

Bids received after 2:00 pm on May 25, 2006 will not be accepted. All interested parties are invited to attend. Bids will be opened and publicly read aloud on May 25, 2006 at 2:00 pm. It is the bidders responsibility to see that mailed or delivered bids are in the hands of the Owner prior to the time of the bid opening. The bid will be awarded to the lowest and best bidder.

OBTAINING DOCUMENTS: Drawings and Specifications may be examined at the Owner's office at the address shown above.

Bidding documents may be obtained by prime bidders and major sub-bidders from the Owner upon request. A deposit of \$50.00 is required for one set. If the bidder returns the set of documents, in good condition, within 10 days following the bid date, the deposit will be refunded. If the bidder does not return the set of documents within the designated time, none of the deposit will be refunded.

Partial or complete sets of prints and specifications may be obtained from the Owner by other than the above. The sets or partial sets will be distributed upon receipt of payment for the information charged at the current reproduction rate. None of this payment will be refunded. Completeness and adequacy of the list of documents requested shall be the responsibility of the person making the request. BID SECURITY: Bid Security in the amount of five (5%) percent of the bid including all add alternates, must accompany each Bid. Cash, Bidders Bond, cashier's checks or certified checks will be accepted. This bid security must be submitted in a separate envelope with your bid.

NORTH DAKOTA LAW: All bidders must be licensed for the highest amount of their bids, as provided by North Dakota Century Code Section 43-07-05; and no bid will be read or considered which does not fully comply with the

Public Notices

2. Grading and leveling the existing baseball field.
 3. Cost estimate for black dirt based on cubic yards.
 4. Cost of leveling black dirt based on square footage and or cubic yards.
 5. Cost for sod based on square footage.
 6. Cost for the laying of sod in the infield and outfield based on square footage.
 7. Cost for baseball field aggregate based on cubic yards.
 8. Cost for leveling baseball field aggregate based on square footage and cubic yards.
 9. Cost for underlying protective barrier in infield area.
 10. Removal of top layer of material from existing outside track which has eight lanes.
 11. Reapplication of top layer on track which is comprised of a rubber composite material used on outside track surfaces.
 12. Painting and striping of track.
- For appointments and inquires, please contact Dennis DeCoteau at (701)-477-6471 ext 224.
(May 6, 9, 11, 13, 16, 18, 2006)

STATE OF NORTH DAKOTA
COUNTY OF GRAND FORKS
IN DISTRICT COURT
NORTHEAST CENTRAL JUDICIAL DISTRICT
Probate Division
In the Matter of the Estate of Carol J. Dale, Deceased.

PROBATE NO. 06-P-54
NOTICE TO CREDITORS

NOTICE IS HEREBY GIVEN that the undersigned has been appointed Personal Representative of the above estate. All persons having claims against the said deceased are required to present their claims within three months after the date of the first publication of this notice or said claims will be forever barred. Claims must either be presented to David Dwight Dale, Personal Representative of the Estate, at 418 N. Main, Crookston, MN 56716.

Dated this 3rd day of May, 2006.
DAVID DWIGHT DALE

SANDRA B. DITTUS
Zimney Foster P.C.
3100 South Columbia Road, Ste. 200
Grand Forks, N. D. 58208-3417
Telephone Number (701) 772-8111
Attorneys for: Estate of Carol J. Dale
(May 11, 18, 25, 2006)

ADVERTISEMENT FOR BIDS

OWNER: City of Langdon
ADDRESS: 324 8th Avenue, Langdon, ND 58249-2598

Notice is hereby given that sealed bids for furnishing all labor, materials, equipment, other facilities, and items necessary or incidental to 2006 City Wide Seal Coat will be received by the City of Langdon at the City Auditor's Office, and will be publicly opened and read aloud at the Langdon City Hall at 2:00 p.m., local time, on Thursday, June 1, 2006. Bids can be mailed to: City of Langdon
c/o Tina Gustafson, City Auditor
324 8th Avenue
Langdon, ND 58249-2598

The Work generally consists of furnishing and installing the following:
All labor and materials for the seal coat pavement improvements in the City of Langdon, as shown on the Drawings, including approximately 82,959 gallons of emulsified asphalt (CRS-2) and 2,318 tons of seal aggregate (NDDOT Class 43) encompassing approximately 319,249 square yards of existing pavement. Also included in the work is the cleaning of street surfaces and the protection of all existing structures and appurtenances prior to seal coat placement as well as traffic control and surface restoration identified in the construction documents.

Note: listed quantities are an approximation only. Actual quantities will vary depending on existing conditions in the field and the Contractor's tested aggregate gradation submitted to the engineer after project award.

Each Bid must be submitted on a Bid form in a securely sealed bidding envelope. The envelope shall be plainly marked to indicate its contents and shall show the name of the person, firm, or corporation submitting the Bid and the Project title.

Each bid must be completed in accordance with the Bidding Documents and accompanied by a separate envelope containing an acceptable Bidder's bond and Contractor's license or certificate of renewal issued by the Secretary of State. The Bond shall be payable to the City of Langdon in the amount equal to five percent (5%) of the full amount of the Bid, executed by the Bidder as principal and by a Surety, authorized to do business in the State of North Dakota meeting the requirements of the Bidding Documents, conditioned that if the principal's Bid is accepted and the con-

Public Notices

discs (CDs) from Advanced Engineering and Environmental Services, Inc. The costs for each set of Bidding Documents obtained are \$25.00 for CDs and \$75.00 for printed documents. Payment for Bidding Documents is **NON-REFUNDABLE**. All Work shall be done according to the Bidding Documents. Bidding Documents may also be examined at the following locations:

Advanced Engineering and Environmental Services, Inc.
3101 Frontage Road S
Moorhead, MN 56560

Advanced Engineering and Environmental Services, Inc.
1815 S Schafer St. Suite 301
Bismarck, ND 58501

Advanced Engineering and Environmental Services, Inc.
2011 6th Street S
Brainerd, MN 56401

Minneapolis Builders Exchange
1123 Glenwood Ave N
Minneapolis, MN 55405

Fargo Builders Exchange
1010 Page Drive
Fargo, ND 58102

Grand Forks Builders Exchange
3311 South Washington St.
Grand Forks, ND 58201

Reed Construction Data
9443 Science Center Drive
Minneapolis, MN 55428

The construction of the work must begin no sooner than July 31, 2006. The construction of the work must be completed no later than the following:

a) Substantial Completion: September 1, 2006
b) Final Completion: September 15, 2006

The City reserves the right to reject any or all bids, and further reserves the right to award the Contract in the best interests of the City. The City reserves the right to hold the three low bids for a period of thirty-five (35) days after the date of the bid opening.

All costs associated with preparation of bids shall be borne by the Bidder.

Done by order of the City Commission of the City of Langdon, North Dakota, May 12, 2006.

/s/ Tina Gustafson
City Auditor
(May 18, 2006)

- NOTICE OF FAA APPROVAL OF -
Finding Of No Significant Impact

For
**Minimize Wildlife Hazards
at Grand Forks International Airport
Grand Forks, North Dakota**

NOTICE IS HEREBY GIVEN that the Federal Aviation Administration (FAA) has announced an approved Finding of No Significant Impact (FONSI) for proposed improvements at the Grand Forks International Airport, Grand Forks, North Dakota.

The FONSI indicates the project is consistent with existing environmental policies and objectives as set forth in the National Environmental Policy Act of 1969 and will not significantly affect the quality of the human environment.

The proposed action is to reduce the attraction of the airport to high-risk wildlife species, which includes the elimination of 82.2 acres of wetlands. These wetlands consist of approximately 6.2 acres of U.S. Army Corps of Engineers (USACE) jurisdictional wetlands and approximately 76 acres of non-jurisdictional wetlands typical of prairie potholes.

The proposed action will enhance safety by reducing the potential for wildlife-aircraft strikes by implementing long-term action that reduces and mitigates the attraction of the Airport to wildlife.

The Airport shall perform mitigation required by the USACE permit conditions to mitigate for the unavoidable loss of jurisdictional wetlands associated with the wildlife hazard mitigation. Jurisdictional wetland mitigation will consist primarily of wetland restoration at a ratio of at least 1.5 acres of restored wetland to 1 acre of wetland impact.

The Airport shall implement mitigation for approximately 76 acres of wetlands to mitigate for the unavoidable loss of non-jurisdictional wetlands associated with the wildlife hazard mitigation. Non-jurisdictional wetland mitigation will consist primarily of wetland restoration at a ratio of at least 1 acre of restored wetland to 1 acre of wetland impact.

All mitigation shall be conducted off-site to avoid the creation of wildlife attractants, subject to FAA Advisory Circular 150/5200-33A, "Hazardous Wildlife Attractants On or Near Airports".

Mitigation and restoration of wetlands shall avoid the creation of wildlife attractants near the Grand Forks Air Force Base.

The wetland mitigation shall be coordinated through the U.S. Army Corps of Engineers. The

Public Notices

City of Gilby, North Dakota
The City of Gilby was awarded Community Development Block Grant Funding (CDBG) to pay special assessments of qualified residents which are related to the City of Gilby Lagoon Rehabilitation Project.

The households of Michael Bethel and Scott Huist of the City of Gilby are qualified to receive this CDBG program funding. Michael Bethel is the mayor of the City of Gilby and the wife of Scott Huist served as a volunteer on the Special Assessment Committee during the Lagoon Rehabilitation Project. The CDBG program eligibility of City of Gilby officials creates a conflict of interest for CDBG program purposes if such officials exercised or possessed authority to make decisions regarding the Lagoon Rehabilitation Project.

Any comments regarding the use of CDBG funds for the City of Gilby Lagoon Rehabilitation Project and the eligibility of City of Gilby officials to receive qualifying CDBG benefits should be filed in writing on or before May 29, 2006, and addressed to:

Edith Johnson
City Auditor
P.O. Box 86
Gilby, ND 58235
(May 18, 2006)

Air Force Base
Public Notice

Grand Forks Air Force Base has proposed the demolition of three switch station facilities (644, 645 and 646) on base.

An environmental assessment has been conducted and a finding of no significant impact has been determined for this action.

Anyone wishing to view the support documents to this action should contact the 319th Air Refueling Wing Public Affairs Office within the next 30 days at 747-5017 or 747-5608.
(May 18, 20, 2006)

REQUEST FOR PROPOSALS
FUEL FARM ELEVATED WALKWAY
GRAND FORKS INTERNATIONAL AIRPORT

The Grand Forks Regional Airport Authority is requesting proposals for design and construction of an exterior elevated steel walkway with associated stairways and railings for accessing existing fuel farm valves and tank ladders. Proposals must include a bid with all costs for materials and labor. Proposals with bids will be received until 4:30 P.M. CST on June 8, 2006, and then reviewed. Submit proposals with bids to the following:

Proposal requirements are on file and may be obtained from:

Rick Audette, Operations & Maintenance Manager

Grand Forks Regional Airport Authority

2787 Airport Drive
Grand Forks, ND. 58203
(701)-795-6978
(701)-795-6979 FAX
raudette@gfkairport.com

The Airport Authority reserves the right to reject any or all proposals-bids or to waive any informalities and to accept the proposal-bid that is to the advantage and is in the best interest of the Grand Forks International Airport.
(May 18, 27, June 1, 2006)

SECTION 00020
INVITATION TO BID
PROJECT: East Grand Forks Civic Center Renovation
300 - 15th St. NE

ABBREVIATED NOTICE
OF INTENT TO AMEND
ADMINISTRATIVE
RULES

relating to Industrial Hemp Regulations

North Dakota
Department of
Agriculture

will hold a public hearing to address proposed additions to the N.D. Administrative Code pertaining to the Industrial Hemp Regulations.

Lecture Room B

East Grand
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Public Notices

Air Force Base
Public Notice

Grand Forks Air Force Base has proposed the demolition of three switch station facilities (644, 645 and 646) on base.

An environmental assessment has been conducted and a finding of no significant impact has been determined for this action.

Anyone wishing to view the support documents to this action should contact the 319th Air Refueling Wing Public Affairs Office within

the next 30 days at 747-5017 or 747-5608.
(May 18, 20, 2006)

Notice To Competitors Of Hearing On Application For Property Tax Incentives

Notice is hereby given that the City Council of the City of Grand Forks, North Dakota, will meet at 7:00 p.m. on Monday June 12, 2006

at Grand Forks City Hall, 255 North 4th Street, Grand Forks, ND 58203 to consider the application of Production Specialties Corp., dba PS Doors, 4212 Gateway Drive, Grand Forks, ND 58203 for property tax relief on the project which the applicant will use for the manufac-

turing of specialty industrial door and safety products at:
1150 South 48th Street, Grand Forks, ND 58201

Lot 1, Block 1, Maier's 4th ReSubdivision to the City of Grand Forks

Any competitor of that applicant may appear and be heard by the City Council at the time and place designated herein. A competitor may provide written comments to the governing body before the scheduled hearing.

This notice is given by the above-named ap-

plicant pursuant to the provisions of North Dakota Century Code §40-57.1-03
(May 20, 27, 2006)

Public Notices

NOTICE OF PUBLIC HEARING TO AMEND THE STREET AND HIGHWAY PLAN OF THE CITY OF GRAND FORKS TO INCLUDE THE PUBLIC R/W SHOWN AS DEDICATED ON PLAT OF KNIPE'S FIRST AD- DITION

Notice to the public is hereby given that the city council proposed to amend the Street and Highway Plan of the city of Grand Forks to include the streets and public rights of way shown as dedicated on the plat of Knipe's First Addition to the city of Grand Forks, ND

(located in the 3000 block of South 69th Street).

Pursuant to Section 40-48-16 of the North Dakota Century Code, as amended, notice is hereby given that on the 5th day of June, 2006, in the council chambers in the City Hall in the city of Grand Forks, North Dakota, at the hour of 7:00 o'clock p.m. a public hearing will be held by the city council to the city of Grand Forks, at which time all citizens and interested parties will have an opportunity to be heard upon the aforementioned proposal.

Dated: May 16, 2006

John M. Schmisek
City Auditor

(seal)
(May 20, 27, 2006)

The Marvel School Board met on Monday, April 10th, 2006 at 7:30 P.M. at the school. Members present: M. Johnson, T. Ferry, S. Dockter, B. Moody, and K. Thibert.

Approved: March minutes. M/S/U Ferry, Johnson.

Approved: Financial Report and Payment of Bills. M/S/U Dockter, Ferry.

Discussed: Long Range Planning Meeting

Approved: Open enrollment cancellation for Bayne. M/S/U Dockter, Ferry.

Approved: Appointment of Richard Ray as Migrant School Director. M/S/U Thibert, John-

Public Notices

son.
Approved: Application of Migrant School. M/S/U Thibert, Ferry.
Approved: Consolidated Grant Application. M/S/U Thibert, Dockter.
Discussed: Accreditation

Approved: School Board Election date of June 6, 2006. M/S/U Dockter, Johnson.

Discussed: Staffing

Discussed: Teacher Negotiations Proposal

Approved: Mr. Ray's resignation as of June 30, 2006. M/S/U Thibert, Dockter.

Adjourned: Dockter, and Thibert seconded. Respectfully submitted,
Catherine Hatt, Business Manager
(May 20, 2006)

GRAND FORKS COUNTY COMMISSION MEETING

May 2, 2006 - 4:00 P.M.

The Board met pursuant to adjournment with Commissioners Kvasager, Yahna, Triplett

Malm and Murphy present.

Moved by Malm, seconded by Yahna, to approve the minutes of the April 18, 2006 meeting. Motion carried.

Moved by Murphy, seconded by Triplett, to approve the order of the agenda. Motion carried.

ried.

Moved by Yahna, seconded by Murphy, to approve the consent agenda. Items in the consent agenda include bills as submitted by the County Auditor, Check #114530 thru Check #114712 in the amount of \$365,206.97, overtime and bonds for check reissue. Motion

carried.

Sherry Stover, NDSU Extension Office, addressed the board.

Moved by Murphy, seconded by Yahna, to approve the in-kind support for the Family Nutrition Program during the granting period of

Public Notices

October 2006 through September 2007. Motion carried.

Lane Magnuson, County Planner, addressed the board.

Moved by Yahna, seconded by Malm, to approve the application of Tom Paulson for the

Plat of Paulson Subdivision consisting of 1 lot on 7.16 acres in section 36, Elm Grove Township. Motion carried.

Moved by Triplett, seconded by Murphy, to continue the current planning action procedures used in the Grand Forks County Plan-

ning and Zoning Office. Motion carried. The procedures are on file in the Grand Forks County Planning and Zoning Office.

At 4:15pm the Chairman opened the public hearing on the dangerous building located in the NW1/4 of section 5, Brenna Township. No

one from the public appeared. The hearing was closed.

Moved by Malm, seconded by Murphy, to forward the dangerous building complaint to the States Attorney's office and have the demolition of the subject building put out for bids. In

addition, any costs incurred by the County from this action will be assessed on the property tax bill on the subject property per Subdivision 16 of the Grand Forks County Zoning Resolution. Motion carried.

The email received from Mr. Christopher D.

Jordheim will be received and filed.

Jim Campbell, Emergency Management Director, gave the Grand Forks County preliminary damage assessment from the flooding in Grand Forks County during the spring of 2006. The preliminary total is \$1,325,400.

Richard Onstad, Highway Superintendent, addressed the board.

Moved by Murphy, seconded by Yahna, to approve a resolution to award Mayo Construction the contract for project SC-

1808(057) on County Road 33 and authorize

NOTICE OF PUBLIC AUCTION SALE OF ABANDONED PROPERTY GRAND FORKS POLICE DEPARTMENT GRAND FORKS NORTH DAKOTA

The following abandoned and unclaimed motor vehicles have been in the possession of the Grand Forks Police Department for more than fifteen (15) days and other

ty for more than sixty (60) days and will be sold at public auction to the highest bidder in accordance with section 39-24-08 and 40-05-02 (20) of the North Dakota Century Code.

Sale starting at 9:00 AM in the City Impound Lot, 1800 36 St N, Grand Forks North Dakota, Saturday June 3, 2006.

Auctioneer North Dakota Lic. # 732 David Leonardi Auctioneer.

Auction Company Clerking North Dakota Lic. # 532.

MOTOR VEHICLES OFFERED FOR SALE

Year	Make	Model	VIN	Year	Make	Model	VIN	Year	Make	Model
1987	Buick	Skylark	1G4NC51U5HM016531	1990	Dodge	D150	1B7GE06Y8LS604840	1989	GMC	Safari
1989	Buick	Century	1G4NC54D8KM022942		Dodge	Ram	1B7HF13Z0TJ172979	1986	Honda	2 Do
1993	Buick	LeSabre	1G4HR53L2PH532322		Dodge	Shadow	1B3XP24D1NN110697	1987	Honda	Acco
1989	Buick	4dr	1G4HR54C9KH420625	1989	Dodge	Caravan	2B4FK45K9KR334121	1989	Honda	CRV
1971	Buick	Riviera	494871H925811	1990	Ford	Tempo	1FAPP31X3LK150528	1995	Mercury	Sabl
	Cadillac	Eldorado	1G6EL5786FE647569	1988	Ford	Tempo	1FAPP33S1JK120619	1993	Mercury	Sabl
1993	Cadillac	4 dr	1G6CD53B4P4314252	1988	Ford	LTD	2FABP74F3JX10775	1988	Nissan	Pick-
1984	Cadillac	2Dr	1G6AL57NXEE675328	1989	Ford	Festiva	KNJB06K5K6110838	1989	Oldsmobile	4 Do
1988	Chevrolet	Cavalier	0G1JC111JJ235076	1986	Ford	Bronco	1FMDU15N6GLA06700		Oldsmobile	Nine
1993	Chevrolet	S-10 Pick-up	1GCCS14Z0P8186933	1988	Ford	Tempo	1FAPP36X2JK130485	1988	Oldsmobile	
	Chevrolet	Beretta	1G1LV13T6NY247146	1993	Ford	Taurus	1FACP524U6PG176354	1949	Oldsmobile	88
1993	Chevrolet	Lumina	2G1WN14T8P9239715	1989	Ford	Probe	1ZVBT20C2K5245147	1992	Oldsmobile	Achi
	Chevrolet	4dr	1G1AD69G8C7119382	1988	Ford	Bronco	1FMCU14TXJD95502	1992	Oldsmobile	Achi
1990	Chevrolet	Blazer	1GNCT18Z5L8127739	1992	Ford	Explorer	1FMDU34X8NUC48393	1988	Oldsmobile	Delt
1982	Chevrolet	Van	1GBG25H4C7121027	1986	Ford	Van	1FTDE14Y0GHA81814	1992	Oldsmobile	Nine
1987	Chevrolet	Nova	1Y1SK5145H2122275	1990	Ford	Aerostar	1FMDA41XXLZA82610	1992	Plymouth	Voye
1992	Chevrolet	Cavalier	1G1JF14T4N7185853	1985	Ford	Escort	1FABP0424FW127829	1989	Plymouth	Voye
1981	Chevrolet	Truck	1GDCD14H3BJ155122	1986	Ford	Taurus	1FABP29U9GG199756		Plymouth	
	Chevrolet	Lumina	1GNDU06E1TT111885	1994	Ford	Tempo	1FAPP36X7RK186319	1990	Pontiac	600
1984	Chevrolet	S-10	1GCDT14B5E2136386	1991	Ford	Explorer	1FMDU34X4MUD26859	1991	Pontiac	Grar
1987	Chevrolet	Celebrity	1G1AW51R1H6136264	1980	Ford	F150	1F5FPGG1886	1991	Pontiac	Tem
1993	Chevrolet	S-10	1GCCS19RX0P115052	1982	Ford	Pick-up	1FTEF15F2CPA68710	1989	Pontiac	Boni
	Chevrolet	Astro van	1GNEL19W3PB206154	1993	Ford	2dr	1ZVCT20A9P5208865	1990	Pontiac	Grar
1988	Chevrolet	Beretta	1G1LV1111JE271772	1991	Ford	Crown Victoria	2FACP74F1MX133136	1990	Pontiac	Grar
1989	Chevrolet	Beretta	1G1LW14W1KY197001	1995	Ford	4 Door	1FALP66L1SK138897	1989	Pontiac	Sun
1985	Chevrolet	Celebrity	1G1AW19R8F6168297	1986	Ford	Ranger	1FTBR10A1HUC28087	1995	Saturn	SL1
1990	Chevrolet	Blazer	1GNCS18Z2L8133386	1978	Ford	Ranger	X15GKCA4233	1991	Saturn	4 dr
1992	Chevrolet	Cavalier	1G1JC5447N7196175	1988	Ford	Taurus	1FABP5243JG261252	2002	Saturn	SC2
							1FABP3824GG137212		Town	Pick

Energy conservation
Rising fuel prices are sparking the need for all of us to look for creative ways to reduce our energy usage. In fact, the president has directed all government agencies to conserve. This challenging goal cannot be accomplished without the help of the entire base community. Below are a few quick tips that you and your family can use to help reduce our consumption:

1. Turn off lights when they are not needed. Make sure exterior lights are turned off during daylight hours.
2. Set air conditioning temperatures no lower than 78 degrees and heating temperatures no higher than 68 degrees.
3. Turn down building thermostats during unoccupied hours and while sleeping.
4. Turn off building air conditioning during unoccupied hours.
5. Ensure furniture or other items don't obstruct ventilation.
6. Make sure monitors, printers, copiers and other appliances are turned off when not in use.
7. If you have suggestions or ideas to help reduce energy use, or if you have any questions, call the 319th Civil Engineer Squadron at 747-5159, 6371 or 4652.

Public notice

Grand Forks Air Force Base has proposed the demolition of three switch station facilities (644, 645 and 646) on base.

An environmental assessment has been conducted and a finding of no significant impact has been determined for this action.

Anyone wishing to view the support documents to this action should contact the 319th Air Refueling Wing Public Affairs Office within the next 30 days at 747-5017 or 747-5608.

Thrift shop

Consignments are taken from 10 a.m. to noon on days open.

Donations are accepted from 10 a.m. to 2 p.m. on Tuesdays, Fridays and the first Saturday of the month.

Please do not leave boxes or bags of donations at the door or building. Due to safety concerns unattended packages will be disposed of. If you have donations to give and you can not drop off during regular hours please call the thrift shop at 747-3136.



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www.ndhealth.gov



June 20, 2006

Ms. Diane Strom
Environmental Impact Analysis Program
319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Re: Draft Environmental Assessment, Demolition of CASS Switch Stations
Buildings 644, 645 & 646 at Grand Forks Air Force Base, Grand Forks County

Dear Ms. Strom:

This department has reviewed the information concerning the above-referenced project submitted under date of May 16, 2006, with respect to possible environmental impacts.

This department believes that environmental impacts from the proposed demolition will be minor and can be controlled by proper demolition methods. With respect to demolition, we have the following comments.

1. All necessary measures must be taken to minimize fugitive dust emissions created during demolition activities. Any complaints that may arise are to be dealt with in an efficient and effective manner.
2. Projects disturbing one or more acres are required to have a permit to discharge storm water runoff until the site is stabilized by the reestablishment of vegetation or other permanent cover. Further information on the storm water permit may be obtained from the Department's website or by calling the Division of Water Quality (701-328-5210). Also, cities may impose additional requirements and/or specific best management practices for demolition affecting their storm drainage system. Check with the local officials to be sure any local storm water management considerations are addressed.
3. All necessary measures must be taken to minimize the disturbance of any asbestos-containing material and to prevent any asbestos fiber release episodes. Removal of any friable asbestos-containing material must be accomplished in accordance with section 33-15-13-02 of the North Dakota air pollution control rules.
4. Noise from demolition activities may have adverse effects on persons who live near the demolition area. Noise levels can be minimized by ensuring that demolition equipment is equipped with a recommended muffler in good working order. Noise effects can also be

Environmental Health
Section Chief's Office
701.328.5150

Division of
Air Quality
701.328.5188

Division of
Municipal Facilities
701.328.5211

Division of
Waste Management
701.328.5166

Division of
Water Quality
701.328.5210

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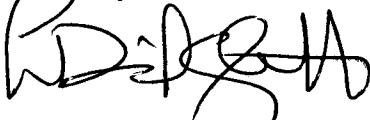
minimized by ensuring that demolition activities are not conducted during early morning or late evening hours.

5. All solid waste materials must be managed and transported in accordance with the state's solid and hazardous waste rules. Appropriate efforts to reduce, reuse and/or recycle waste materials are strongly encouraged. As appropriate, segregation of inert waste from non-inert waste can generally reduce the cost of waste management. Further information on waste management and recycling is available from the Department's Division of Waste Management at (701) 328-5166.

The department owns no land in or adjacent to the proposed improvements, nor does it have any projects scheduled in the area. In addition, we believe the proposed activities are consistent with the State Implementation Plan for the Control of Air Pollution for the State of North Dakota.

If you have any questions regarding our comments, please feel free to contact this office.

Sincerely,

A handwritten signature in black ink, appearing to read 'L. David Glatt', written over a horizontal line.

L. David Glatt, P.E., Chief
Environmental Health Section

LDG:cc



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of Museums*

May 17, 2006

Ms. Diane M. Strom
Environmental Impact Analysis Program
319 CES/CEVA, Room 128
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205-6434

**ND SHPO 97-0527Z: EA Demolish CASS Switch Stations Buildings 644,
645, 646 Grand Forks Air Force Base, North Dakota**

Dear Ms. Strom,

We reviewed ND SHPO 06-0636: EA: Demolish CASS Switch Stations Buildings 644, 645, 646 Grand Forks Air Force Base, North Dakota and concur with a "No Historic Properties Affected" determination, provided the project is of the nature specified and takes place in the legal description outlined and mapped in the draft report.

If you have any questions please contact Susan Quinnell, at (701) 328-3576 or squinnell@nd.gov

Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer (North Dakota)

Rec 19 May 06

From: Schumacher, John D. [jdschumacher@nd.gov]

Sent: Tuesday, May 30, 2006 11:43 AM

To: Strom Diane Civ 319 CES/CEVA

Subject: RE: Review of EA to Demolish Buildings 644, 645 and 646 at Grand Forks AFB

The North Dakota Game and Fish Department has reviewed this project for wildlife concerns. We do not believe it will have any significant adverse effects on wildlife or wildlife habitat, including endangered species, based on the information provided.

Sincerely,
John Schumacher
Resource Biologist
NDGFD
jdschumacher@nd.gov

-----Original Message-----

From: Strom Diane Civ 319 CES/CEVA [mailto:Diane.Strom@grandforks.af.mil]

Sent: Tuesday, May 16, 2006 1:08 PM

To: Dwelle, Terry L.; Boyd, James R.; Steinwand, Terry R.; Knudtson, Larry J.; Paaverud, Merl E.; jeffrey_towner@fws.gov

Cc: Glatt, Dave D.; Leier, Joleen M.; Schumacher, John D.; Quinnell, Susan L.; Terry_Ellsworth@fws.gov; Marie_Nelson@fws.gov

Subject: Review of EA to Demolish Buildings 644, 645 and 646 at Grand Forks AFB

We are soliciting your views and comments on the proposed project in the enclosed Environmental Assessment. Any information or comments relating to environmental or other matters that you might provide will be used in identifying constraints that should be considered during the development of the proposed action.

Please forward any comments of information within thirty days. Thank you for your assistance. Any questions or concerns can be addressed to me at the address below.

Sincerely,

Diane M. Strom

Environmental Impact Analysis Program

319 CES/CEVA, Room 128

525 Tuskegee Airmen Blvd

Grand Forks AFB ND 58205-6434

Phone (701) 747-6394

FAX (701) 747-6155

Diane.Strom@grandforks.af.mil

Strom Diane Civ 319 CES/CEVA

From: Terry_Ellsworth@fws.gov
Sent: Tuesday, May 16, 2006 1:48 PM
To: Strom Diane Civ 319 CES/CEVA
Cc: Jeffrey_Towner@fws.gov; Connie_Young-Dubovsky@fws.gov
Subject: Re: Review of EA to Demolish Buildings 644, 645 and 646 at Grand Forks AFB

Attachments: EA .pdf



EA .pdf

Diane,

The Service has reviewed the subject report and finds that the project as described will have no significant impact on fish and wildlife resources.

No endangered or threatened species are known to occupy the project area.

If project design changes are made, please submit plans for review.

Terry Ellsworth
North Dakota Ecological Services Field Office
3425 Miriam Avenue
Bismarck, ND 58501

Office (701) 355-8505
Fax (701) 355-8513
Terry_Ellsworth@fws.gov

"Strom Diane Civ 319
CES/CEVA" To: <tdwelle@state.nd.us>, <jboyd@state.nd.us>, <tsteinwa@state.nd.us>,
<Diane.Strom@grandfo <lknudtson@state.nd.us>, <mpaaverud@state.nd.us>,
<jeffrey_towner@fws.gov>
rks.af.mil> cc: <dglatt@state.nd.us>, <joleier@state.nd.us>, "Schumacher, John D."
<jdschumacher@state.nd.us>, <squinnell@state.nd.us>, <Terry_Ellsworth@fws.gov>,
05/16/2006 01:07 PM <Marie_Nelson@fws.gov>
Subject: Review of EA to Demolish Buildings 644, 645 and 646 at Grand Forks AFB

We are soliciting your views and comments on the proposed project in the enclosed Environmental Assessment. Any information or comments relating to environmental or other matters that you might provide will be used in identifying constraints that should be considered during the development of the proposed action.

Please forward any comments of information within thirty days. Thank you for your assistance. Any questions or concerns can be addressed to me at the address below.

Sincerely,
Diane M. Strom
Environmental Impact Analysis Program

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May 18, 2006

Diane M. Strom
Dept. of the Air Force
319 CES/CEVA, Room 128
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

"Letter of Clearance" In Conformance with the North Dakota Federal Program
Review System - State Application Identifier No.: ND060518-0206

Dear Ms. Strom:

SUBJECT: Draft EA/FONSI - Demolition of the CASS Switch Station Facilities
644, 645, and 646

The above referenced draft EA/FONSI has been reviewed through the North Dakota
Federal Program Review Process. As a result of the review, clearance is given to the
project only with respect to this consultation process.

If the proposed project changes in duration, scope, description, budget, location or
area of impact, from the project description submitted for review, then it is necessary
to submit a copy of the completed application to this office for further review.

We also request the opportunity for complete review of applications for renewal or
continuation grants within one year after the date of this letter.

Please use the above SAI number for reference to the above project with this office.
Your continued cooperation in the review process is much appreciated.

Sincerely,

A handwritten signature in black ink, appearing to read "James R. Boyd". The signature is fluid and cursive, with a large, stylized "J" and "B".

James R. Boyd
Manager of Governmental Services
Division of Community Services

bb

Rec 22 May 06